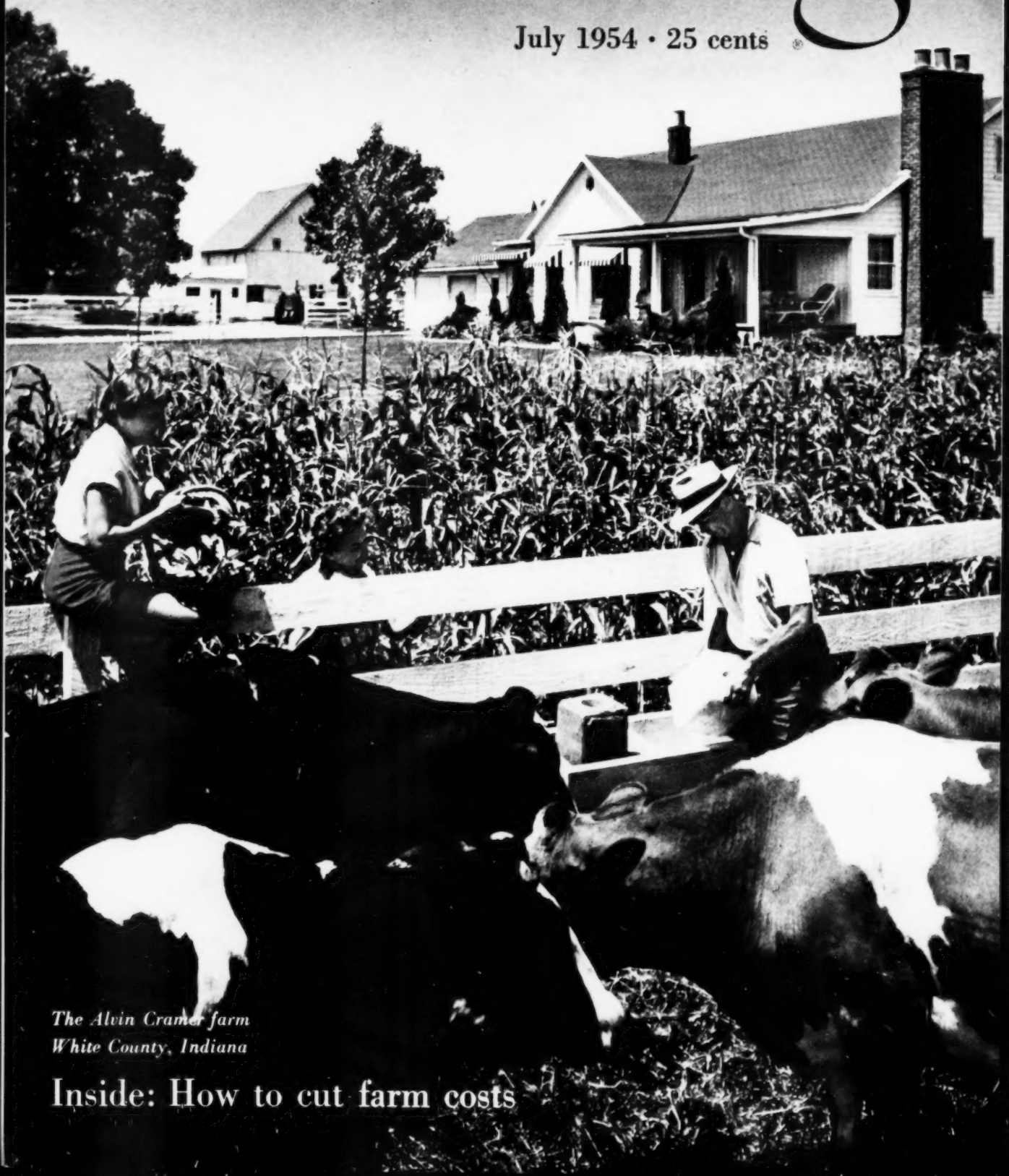
Successful Farming

July 1954 · 25 cents



The Alvin Cramer farm
White County, Indiana

Inside: How to cut farm costs

New, Revolving Shelves

PUT ALL FOODS AT YOUR FINGERTIPS!

A simple twist of the wrist, and the back area of the Revolving Shelves is right in front.

YOU SEE WHAT you want. No more fussing, fumbling, fuming. No more hard-to-reach corners where leftovers are forgotten. These new, wonderful revolving shelves turn silently. You can widen—or narrow—the spacing between shelves without removing the food *or lifting the shelves.*

More shelf space, too!

OLD-STYLE SHELVES

NEW REVOLVING SHELVES

Actually 8 per cent more shelf space than in the previous corresponding model with old-style shelves.

See this new 12-cubic-foot General Electric Refrigerator-Freezer Combination at your G-E dealer's. Look for his name in the classified telephone directory. General Electric Company, Appliance Park, Louisville, Kentucky.

TRUE COMBINATION REFRIGERATOR-FREEZER

G-E Refrigerators available with right- or left-hand doors.

More shelf room, too. The inside walls are rounded to accommodate *extra-large* shelves. There's actually more shelf room than in the previous corresponding model with conventional shelves.

About $5.25* weekly *After small down payment. See your dealer for exact terms. Prices and specifications subject to change without notice.

Model LH 12H, illustrated, holds 12 cubic feet of fresh and frozen foods. Price $525.96 Other G-E Refrigerators as low as $240.48.

Two separate and complete appliances in one cabinet!

True zero-degree freezer is built just like a floor-type freezer. Has its own separate refrigerating system. Keeps up to 89 packages of frozen foods as long as a year.

Automatic defrosting refrigerator section is separately insulated and is *completely* automatic. No clocks to set; no pans to empty. Nothing to remember.

So dependable! More than 3,500,000 G-E Refrigerators in use 10 years or longer!

GENERAL ELECTRIC

There's no pull like this STRAIGHT pull!

TOUGH JOBS PROVE IT!

SUPER-SURE-GRIPS, made only by Goodyear, have o-p-e-n c-e-n-t-e-r tread with deep, rugged, ruler-straight lugs. They transmit your tractor's pulling power straight to the soil, hold that soil in place with Goodyear's exclusive wedge-in action — boost you through a better day's work than you ever thought possible!

That's Number One reason why farmers overwhelmingly prefer SUPER-SURE-GRIPS. In fact, surveys show that, year after year, these long-wearing Goodyear tires get more votes than the next two makes put together!

SUPER-SURE-GRIPS cost no more — so why shouldn't you have them too? Goodyear, Farm Tire Department, Akron 16, Ohio.

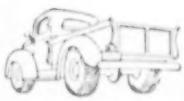
WHY SUPER-SURE-GRIPS GIVE "THE GREATEST PULL ON EARTH"

1. RULER-STRAIGHT LUGS come closer together at shoulders — and so take wedge-like bites that hold soil in place — to give Goodyear tires greater grip.

2. O-P-E-N C-E-N-T-E-R pioneered by Goodyear. Farm experience proves it bites deeper, sharper — pulls better — when combined with straight lugs!

3. LONG EVEN WEAR — because Goodyear straight lugs work against the soil evenly, they wear evenly, roll smoothly on the road, wear longer.

THERE'S A SPECIALLY DESIGNED GOODYEAR TIRE FOR EACH VEHICLE ON THE FARM!



You'll save money, get better service from your truck, family car and farm implements — if you tire them all with Goodyears. That's why more people buy Goodyears, for more uses, than any other tires on earth!

Super-Sure-Grip—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

FIRST in Traction • FIRST in Long Wear • FIRST in Popularity!

GOODYEAR

Super-Sure-Grip Tractor Tires

"America's strength is in the land — Support your Soil Conservation Program"

We think you'll like THE GOODYEAR TELEVISION PLAYHOUSE — every other Sunday — NBC TV Network

SUCCESSFUL FARMING'S NEWS OF THE MONTH

New era of the cornstalk

Des Moines, Iowa—Now, you can have ear corn—and silage, too.

New developments in feeding, farm machinery, and land management make it possible for you to use *all* of the value of the corn plant.

Machines—such as the one shown above—that pick the ear, chop the stalk, and deliver each to different wagons are now on the market. You also can do the same job with your ordinary picker, followed with a forage chopper.

The greatest value of the cornstalk is as feed for cattle. At Iowa State College, Dr. Wise Burroughs has fed cornstalk silage to fattening steers. The silage was fed with a number of different supplements. *Gains averaged 1½ to 2 pounds per day.*

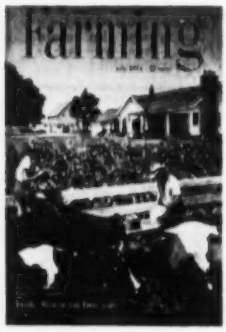
An acre of corn will give you about 7 tons of cornstalk silage. At this rate, you could *double* the number of cattle without adding acres or taking acres out of grass.

To make the best cornstalk silage, the corn should be picked when the ears contain from 30 to 35 percent moisture. This means the ear corn must be artificially dried.

Early harvest allows you to seed rye for late fall and early spring pasture and as a winter cover crop. Stalks not made into silage can be chopped later for bedding or blown back onto the field as a mulch.

It's possible to forget putting up hay if you make stalk silage. Hay land can be used as pasture.

There are many other important developments connected with this new "discovery" of cornstalks. *Successful Farming* will bring them to you in a forthcoming issue.



On the cover

Idaville, Indiana—It's July and roasting-ear time for the Alvin Cramers. Mrs. Cramer and daughter, Georgia Lou, pause to watch Mr. Cramer bring out new salt blocks to eagerly waiting cows.

You'll remember Georgia Lou as the young lady who baked "The best cherry pie we've ever eaten" (January, 1954, issue of *Successful Farming*). The Cramers enjoy farm living, and it's easy to see why.

Photograph: Hedrich-Blessing

Index on page 26

Your social security

Washington—Here's how the new social-security bill, to include farmers and more hired men, as introduced in the House of Representatives, would affect you:

- It would extend social-security benefits to all self-employed farmers who have *net incomes of $400 a year or more.*
- The old age and survivors insurance would cost you 3 percent of your first $4,200 of *net* income.
- It would include any hired man who made $50 or more from *one* employer in a calendar quarter.
- Benefits of social security, also called old age and survivors insurance, include more economic security in old age or in case of death of the family's breadwinner.

Successful Farming will tell you what the *final law* means to you—after it has been interpreted.

Now—beef sausage

Denver—Another all-beef product has found its way to the breakfast table in the form of link sausage. It joins another breakfast beef product, beef bacon, which *Successful Farming* was first to announce in the March, 1954, issue. The beef sausage is made of choice ground beef and sells for several cents *less* per pound than similar-quality pork link sausage.

Beef for 14.5 cents

Castana, Iowa—Can you afford to cut pasture and haul it to cattle?

In first-year experiments at the Western Iowa Experiment Station, the cost of producing a pound of beef on steers fed clippings in dry lot (based on "clipping costs" and "pasture costs") was *14.5 cents per pound.* This compared to *20.9 cents a pound* on steers that harvested their own forage.

When forage was clipped and fed in dry lot, *480 pounds* of beef was produced per acre, compared with *190 pounds* for pastured animals.

SUCCESSFUL FARMING JULY 1954
VOLUME 52 NUMBER 7

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Printed in U. S. A.

New Life Insurance Policy of New York Life ideal for keeping your farm in the family!

THE more successful a farmer becomes, the more his family may have to pay for it when he dies —unless he does something about it ahead of time.

Estate taxes, inheritance taxes, administration costs and probate costs can add up tremendously. And since they must be paid in cash, heirs are often hard-pressed to pay them without selling part of the farm.

For that reason, many far-sighted farmers are providing for "tax money" in their insurance programs today.

Recently the New York Life Insurance Company introduced a new insurance policy which is ideal for this purpose. Since the minimum face amount of the new Whole Life policy is $10,000, economies are possible which help keep the premiums remarkably low. Yet low as the premiums are, cash and loan values build quickly.

This makes it possible for a farmer to carry enough low-cost life insurance to guarantee his heirs sufficient cash to pay estate settlement costs in the event of his premature death. Meanwhile, the rapidly mounting cash and loan values can do much to improve his credit standing. And, should he live and ultimately decide to give the farm to his children and take life easy, the cash value can be applied to his retirement income.

If you need at least $10,000 more life insurance to protect your farm, your family and your own future, ask your New York Life agent about this new Whole Life policy today—or mail the coupon!

$10,000 MINIMUM FACE AMOUNT

This $10,000 minimum results from today's growing need for substantial coverage at low premium cost. It serves as a solid foundation for a life insurance program to protect your family, your farm and yourself.

LOW PREMIUMS

Savings made possible by the high minimum face amount are passed on to policy owners in lower premiums. Standard annual rate is only $17.59 per $1,000 at age 25; $23.59 at 35; $33.64 at 45; $50.46 at 55. At most ages waiver of premium and double indemnity benefits are available for slightly more. New York Life is a mutual company and pays dividends to policy owners only. These dividends may be used to further reduce the low premium payments.

HIGH CASH AND LOAN VALUES

Low as the premiums are, cash and loan values build fast—equal to the full reserve after only seven years; i.e.: seventh year cash value of a policy taken out at age 25 is $92 per $1,000; at 35, $123; at 45, $164; and at 55, $213.

This new policy is issued to age 70. It may be available at higher rates to persons who cannot qualify for standard insurance due to health or occupation.

nylic

NEW YORK LIFE
INSURANCE COMPANY

A MUTUAL COMPANY FOUNDED IN 1845

The New York Life Agent in Your County is a Good Man to Know

MAIL THIS COUPON NOW!

New York Life Insurance Company, Dept. SF-1
51 Madison Avenue, New York 10, N. Y.

Please furnish me, without any obligation, full information on your new Whole Life insurance policy, minimum amount $10,000.

NAME_____ AGE_____

ADDRESS_____

CITY_____ ZONE_____ STATE_____

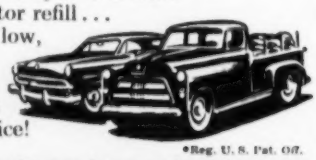
Purolator's tips for FARM MECHANICS

Hour meter takes guesswork out of tractor servicing

The secret of getting low-cost, trouble-free service from farm equipment is preventive maintenance. By stopping trouble before it starts, you save time, save money, save machinery. An engine hour meter keeps accurate account of operating time, tells you exactly when to lubricate, to service brakes, to check steering, to change oil filters, to service air cleaner, and check hydraulic system. Cost of an hour meter is low, and you can't make a better investment. Your tractor dealer will install one for you.

Don't neglect oil filters. Skimping on oil-filter refills invites expensive repairs and shortens the useful life of your machines. Oil-filter refills should be changed at least every 120 hours . . . or oftener in dusty work such as plowing and cultivating. When buying oil-filter refills, follow your manufacturer's recommendations. Never accept substitutes. A filter of the wrong type or poor quality can ruin an expensive engine. Pennies saved here may cost dollars later in repair bills!

Use Purolator* refills in cars and trucks, too! Famous Purolator Micronic* refills—made by the originators of automotive oil filters—trap dirt particles so small you can't see them; have up to ten times more filter area than old-style filters. Next time you have oil changed, tell your service man to put in a fresh Purolator refill . . . priced low, but the best at any price!



*Reg. U. S. Pat. Off.

PurOlator
World's Finest **OIL FILTER**

FARM OUTLOOK FOR JULY

This month's highlights

- Best bet is to seal new wheat. Loan rates may be slightly higher.
- Look for higher corn prices next winter.
- Price on lower-grade beef will suffer most.
- Heavy demand for feeder cattle in early fall. Look for better buys later.
- Too many milk cows.
- Sharp break in hog prices in late August. Look for $17 hogs by December.

Seal your wheat

The government loan is your best bet for new-crop wheat—particularly at harvest time.

Note this: Basic loan rates for No. 1 grade wheat in your county *may be 4 cents higher* than last year's—because of increase in parity prices.

Also look for *higher premiums for protein and discounts on soft wheat.*

Corn support higher

Corn loan rate (to be announced in October) also may be *up 4 cents or more a bushel* this year. But, of course, you can't seal if you overplanted your allotment.

Some pressure off corn

Corn supply will be smaller this year than last, and more will be used. So carryover will be smaller next year. *Build-up of corn stocks probably is past.*

This means: *Corn prices are sure to work higher next winter.* Livestock population will be the biggest in several years.

Here's the cattle picture

Cattle and calf population is still increasing, in spite of last year's heavy slaughter. But numbers are increasing *more slowly* than during the past few years.

The top in *total* cattle numbers likely will be reached in 1955 or 1956—around 96 million head. (That's up from 77 million in 1949.) Slaughter will increase during this period, but slowly.

Bigger beef slaughter

The summer usually brings rising prices for Choice and Prime steers. But prices for lower grades *will work downward* during the summer and early fall.

You should: Sell weighty, low-quality steers now. Your cull cows also will bring more now than they will next fall.

Feeder-buying tips

Demand for feeder cattle likely will be *bigger in early fall* this year than last—and prices a *little higher*, too.

This means: *Don't rush in too early to buy feeders.* Feel out the market and buy on price dips.

Last year, you remember, there was little early buying and prices were low. Buyers who came in later had to pay more. *This year, the situation may be reversed.*

Still more milk cows

Midyear reports show even more cows in the nation's dairy herds. Dairymen will keep producing more milk than people will drink.

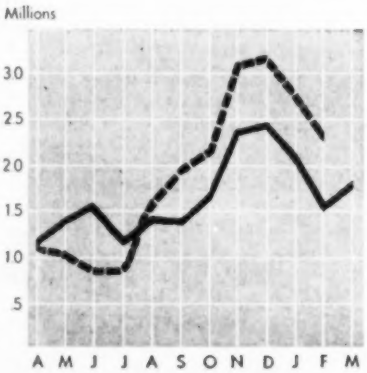
What you should do: Cut corners wherever possible. Unfortunately, there is no miracle formula for cutting costs. Each dairyman must study his own setup carefully. *Don't overlook the possibility of shifting to a premium market.*

Here's a special hog report

Expect hog prices to break sharply in the latter part of August and early September—*probably $5 to $7 under the July high.* Some short price recovery from the September temporary low then is possible. After this, hog prices should again decline gradually through October.

The price will drop faster in November as hog runs mount sharply. Prices will slump another $5 to $8. *This will bring the Chicago top well under $20 by the end of November and December, likely down to $16 or $17.*

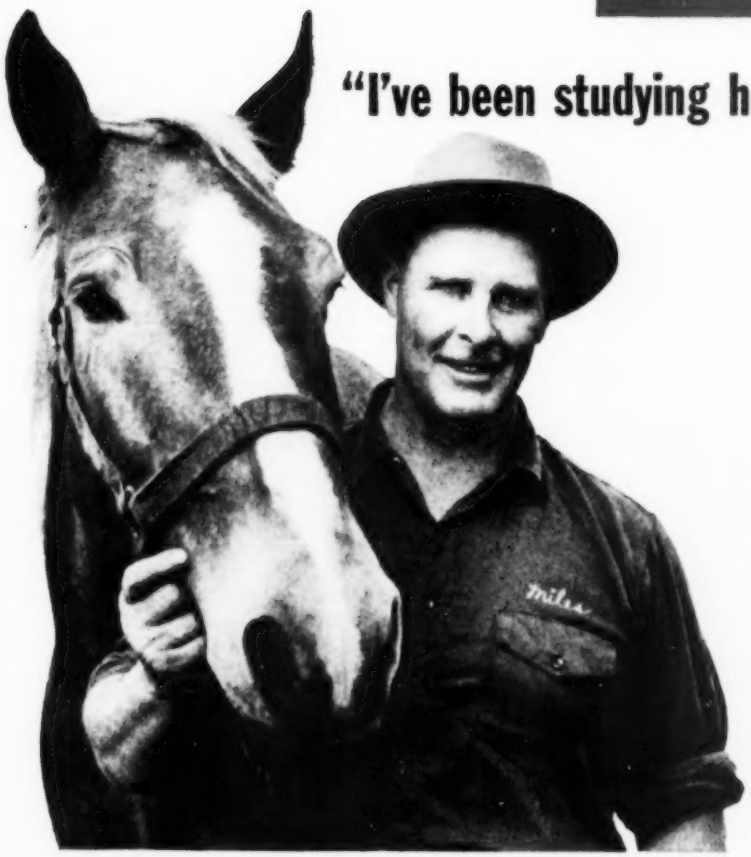
These predictions on the hog price outlook were made in a special report to *Successful Farming* by Iowa State College agricultural economists Elliott Clifton and Francis A. Kutish, and Lyle Fitzgerald of the Chicago Union Stock Yards Company. The predictions are based on a survey of hog raisers in Iowa and the northern three-fifths of Illinois. The chart (below) shows the marketing pattern on which these forecasts are based.



——— Actual number of hogs sold, by months from April, 1953, to March, 1954.
– – – Projected number of hogs to be sold—from April, 1954, to February, 1955.

FARM NEWS GRAPHIC

"I've been studying horsepower for years!"



"Horsepower" is a subject that J. Miles McGrew, farmer near Bushnell, Illinois, understands very well. He owns 50 prize Belgians, many of them champions and grand champions of international fame. Mr. McGrew well remembers when the horse was more than a show animal and was the main source of power on the farm. Like many of the rest of us, Mr. McGrew was in at the beginning of the age of power farming. He started to do business with Standard Oil 28 years ago when it was apparent that Standard, more than any other petroleum company, was giving midwest farmers the kind of quality and service they needed to keep up with power progress. Today, with farm profits depending more than ever on "horsepower output," Mr. McGrew says he couldn't get along without Standard to help him keep his big operation running smoothly.

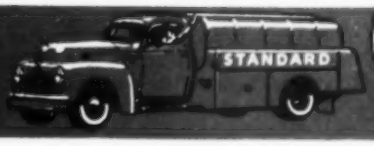
Horsepower of a mechanical nature is a subject Mr. McGrew knows well, too. Here he is with some of the 10 tractors, five trucks and three cars he operates on his 1,750-acre farm. This is a major investment with Mr. McGrew. He protects it by using *only* Standard's PERMALUBE and POLARINE motor oils. "I can't take a chance on up-and-down quality," he says. "I must have consistent quality for this expensive machinery. I know Standard gives me that."

The Standard Oil Agent shown here is G. P. Stuart. He has served the McGrew family for *28 years*. He's a big help to busy farmers because he keeps them supplied with oil, gasoline, grease and other supplies without having to be called. Above he explains to his long-time friend and customer the benefits of another great improvement from Standard Oil – New Super PERMALUBE, the gas-saving motor oil. Couldn't you use friendly service like this?

Your partner in profitable farming

You get all 3 from 1 man!

1. Quality Products
2. Friendly Service
3. Dependable Delivery



STANDARD

Home-Canning Roundtable

by Lucina Ball

THESE DAYS, WHEN EVERY PENNY COUNTS, WISE HOME-PLANNING INCLUDES LOTS OF HOME CANNING. Consider how much farther your money goes with good, nutritious home-canned foods—put up at a cost of only 3¢ per jar for heat, jar and closure—with jar-life estimated at 8 years (based on reliable surveys). So, can MORE—for balanced diets *and* budgets!

Take it Easy!

No need to give the whole day to canning! Work with small batches, process a few Ball Jars at a time—enough for one canner-load. Or, when cooking, prepare an extra quantity of fruits and vegetables—and can a few jars for a surplus supply next winter.

Look for the ENAMEL Lining!

When you top your home canning with the Ball DOME Lid you *know* it's flavor-sealed! Ball DOME Lids give you the extra protection of a creamy-white *enamel* lining, a lining home canners prefer for its smooth clean appearance, acid resistance. Red rubber means a positive seal. When BALL Dome clicks down, you can SEE it's sealed—Dome down, jar sealed.

Menu Variation

Try putting up beet pickles like this:

1 gallon small beets	2 sticks cinnamon
2 cups sugar	1 tablespoon allspice
1½ teaspoons salt	3½ cups vinegar

Wash and drain beets. Cover with boiling water. Cook until tender. Remove skin, stem and root ends. Add sugar, salt, spices, and 1½ cups water, to vinegar. Simmer 15 minutes. Pack beets into hot Ball Jars. Heat liquid to boiling. Pour, boiling hot, over beets. If not enough liquid to cover, add more vinegar. Process pints and quarts 30 minutes in boiling-water bath.

Take an Early Count

It's so inconvenient to run out of jars at canning time! Right now, replace all those with nicks or cracks. Get Ball Mason Jars—the brand that stands for *Quality* with expert home canners. Especially made for home canning, and—the *only* jars that come with Ball DOME Lids!

Guide to Good Eating

In the new Ball Blue Book of Home Canning and Freezing are over 300 ways to better eating—over 300 recipes for fruits, vegetables, pickles, preserves and sauces! Exact timetables and step-by-step methods in full color. All yours by sending 25¢ (coin) to:

BALL BLUE BOOK, Dept. SF74, Muncie, Indiana

Guaranteed by Good Housekeeping

CAN WITH CONFIDENCE ...CAN WITH Ball

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FRIEND TO FRIEND

Light farm machines—Farm Safety Week—Good farm meals—New farm words—Are there too many farmers?

● You would never venture onto a busy highway at night without **taillights** on your **car** or **truck.** But would you be as concerned about protecting the rear of a **baler, combine harvester,** or other large, slow-moving piece of machinery? Twice lately I have nearly swallowed my tongue on topping a rise at reasonable speed and catching my first glimpse—a **few rods** ahead on the road—of such machinery. If you must move machinery on the highway, mark it well in daylight with a **red flag** elevated a few feet on a staff. At night, use an inexpensive red-and-amber light now available, or generous applications of **reflector tape** young farm folks are now selling.

● The eleventh National **Farm Safety Week** has been proclaimed by **President Eisenhower** for July 25-31. For months, the folks at the National Safety Council have been building up a huge publicity and educational campaign for the year. It will reach its peak July 25-31. Fine as the plans have been drawn, they will be useless until farm men, women, and children all **think** and **act** safely. And it's usually the little things neglected that lead to needless injury and sorrow from farm and traffic accidents.

● My concern in the April Friend to Friend column, over giving **tenants** more of a say in laying out their **landlord's** farm operations in which both have a heavy financial stake, brought me many good letters. Some professional farm managers felt I was shooting at them. It was my intention to include anyone who failed to recognize the **tenant's right to plan** should be in proportion to his investment in the business.

I must agree there are many weak or poor tenants who cannot be trusted. But why? Are there not 3 or 4 qualified tenants for every available farm? Can't the **good** man's record be traced and confirmed to eliminate some of the risks?

● A farm meal is traditionally something to boast about to your friends. The **quantity** is always amazing to folks who usually eat around town tables—but the quality of the whole meal or one special dish always gets a play. "Good, **country cooking,**" folks say.

As editors, we get our share of this country cooking—and like it. Perhaps part of the reason is because most of us grew up on it. We mean to give the farm wife recognition now and then as we did **Mrs. John Williamson,** page 62 of the June issue. Who doesn't like good food?

● My grandfather never could teach our **horses** to **"gee"** and **"haw."** They had been trained to obey a tug on right or left line to guide them. He had been trained to drive **oxen.** There are few parts of the country today where men or beasts would know the difference between the two words. "Gee" called for a right turn, "haw" for a left.

Equally confusing to me were my father's terms, **"near"** and **"off"** sides of a horse. All buckles used regularly in attaching the harness to the horse were on the "near" or his left side. When riding, you were supposed to mount your horse from the "near" side. The words also applied to the right or left horse in a 2-horse team. Possibly that term applied to cattle, since we still have the expression, "Odd as Adam's off ox."

A great many words are coming and going from our language. I think old and new **farm words** and terms interesting indications of changes in methods of farming and living.

● The legislation that will determine next year's **farm program** is yet hazy. Best bets are for **rigid price supports** on all basic crops except corn. This will bring heavy acreage reductions for those who may need government loans on stored crops. Inevitably, the results will be wide substitution of crops, increased grass acreage, and **more livestock.**

Not all these changes will be for the best interests of farmer or consumer. A **surplus of livestock products** is inevitable, and such an oversupply cannot be stored from one year to another. It seems to me we have improved our farming methods to the point where we can produce a **surplus** of almost anything at **any time** except in war.

Prospects of increasing population catching up with productivity in the next 10 years are poor. Exports outlets will be of less and less importance. The answer—**fewer farmers.** I don't like that conclusion. However, the decline in 30 years has been accompanied by higher living standards everywhere. It's time to recognize the situation and encourage forces which will bring adjustments in our population groups—without hardships or loss of living standards for anyone. At least one and one-half million farmers today are not making a fair living.

Kirk Fox

WHY WE URGE OUR CUSTOMERS TO CHECK FEED CONSUMPTION AND WEIGHTS

We believe a livestock feed is only as good as *results* prove it to be. And, from the records of thousands of feeders who have accurately checked their own results, we know that MoorMan's Mintrates*, combined with home grown grains and forage, have helped these feeders produce more meat, milk and eggs—more economically—than any other feed they have used.

So we urge every MoorMan user to keep a complete record of feed costs, weights and rates of gain. We want him to know exactly what it is costing him to produce meat, milk and eggs . . . and to prove to himself, by a record of performance, that he is getting *the greatest possible return from his feed dollar.*

And when a MoorMan salesman or a MoorMan advertisement makes statements or claims about the remarkable low cost, high profit results obtained with MoorMan's Mintrates, you can be certain our files contain not just dozens, but *thousands of customer records to back them up.*

There's no magic about this. It's simply the sensible, logical application of the things modern science has learned about nutrition. There's plenty of food and energy value in your home grown feeds. But, when it's fed alone, the animal gets only a part of the goodness nature put into it. More of it needs to be released . . . made fully available for building meat, milk and eggs. *And that's where MoorMan's goes to work.*

MoorMan's Mintrates are composed of a scientifically formulated, highly concentrated combination of minerals, vitamins and proteins.** When fed with your own home grown feeds Mintrates make it easier for your animals to get the fullest possible value from the feed they eat . . . help them return greater profit to you in the form of more meat, milk and eggs per bushel of feed or ton of forage.

When you buy MoorMan's Mintrates you buy nothing you can economically raise or process on your own farm. They contain no grain, no added fiber or filler . . . nothing *you* have raised and shipped to market, and are often asked to buy back in a bag.

Thousands of hog feeders have found that $1.50 corn, combined with MoorMan's Mintrates, can be marketed in the form of pork at $3.50 to $4.50 per bushel. Thousands of dairy farmers have found that only a pound of Cow Mintrate a day increases the milk-making and body-building power in home-grown grain and forage. Thousands of chicken raisers have found that baby chicks started on Chick Mintrate and yellow corn will average well over 3 pounds in 9 weeks.

Are you missing out on these extra profits? Are you getting only part of the true value of your home grown feeds? Are you buying back feed you once raised and sold? Maybe it's time *you* talked to the MoorMan Man. If he does not call soon, write Moorman Mfg. Co., Dept. R4-7, Quincy, Illinois.

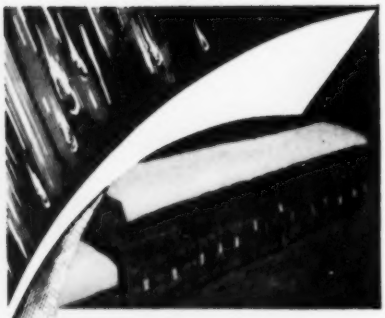
MoorMan's*

(Since 1885)

*Trademark Reg. U. S. Pat. Off.

MAKERS OF VITAMINIZED PROTEIN AND MINERAL CONCENTRATES FARMERS NEED, BUT CANNOT RAISE OR PROCESS ON THE FARM

**Antibiotics are also included in Mintrates for baby chicks and pigs.



6 Ways to Cut Farming Costs with Waterproof, Airtight SISALKRAFT

1 CUT HAY SPOILAGE
Minimize rot from soaking moisture and scorching sun. Cover hay with properly weighted down Sisalkraft.

2 KEEP GRAIN DRY
For emergency storing, line old sheds, garages, bins with Sisalkraft. Improve keeping qualities of steel bins with Sisalkraft at junction of wall and floor.

3 STORE SILAGE
in temporary upright silos built with 48 in. Sisalkraft and wood slat or wire fence.

4 CUT SPOILAGE OF SILAGE
in horizontal silos. Line sides and cover top with tough, long lasting Sisalkraft.

5 SAVE SILAGE
by excluding air in permanent silos with Sisalkraft for capping tops and sealing doors.

6 PROTECT EQUIPMENT
from rain with waterproof Sisalkraft. You can re-use it again and again.

Sisalkraft is available in widths of 3', 4', 5', 6', 7', 8', 13½', and 15½' at Lumber and Building Supply Dealers.

SISALKRAFT PRODUCTS

AMERICAN SISALKRAFT CORP.
Dept. SF-7, Attleboro, Mass.
Please send folders "How to Build Temporary Silos" and "Feed Protection".
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Title.....
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Co. Address.....
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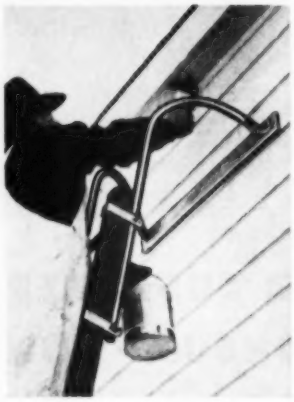
Chicago 6, Ill. • New York 17, N. Y. • San Francisco 5, Calif.

WHAT'S NEW IN FARMING®

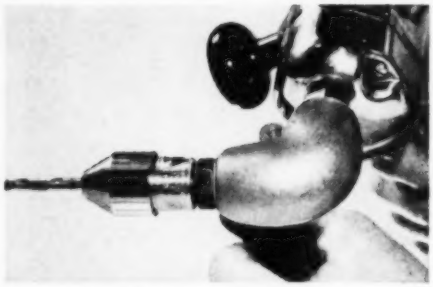
Tips you can use today

Self-feeder. Six-sided feeder allows room for 12 doors and will handle about 60 hogs, says manufacturer. Capacity is 30 bushels. Hopper tapers from top to bottom, letting feed flow without clogging. There are 6 feed regulators.—*H. D. Hudson Manufacturing Company, 589 East Illinois Street, Chicago 11, Illinois.*



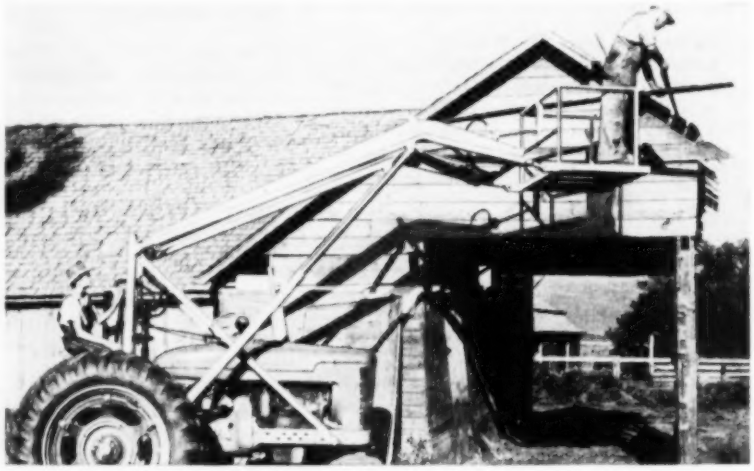
A ladder accessory. This unit holds ladder away from wall, giving you more space to work. It can be adjusted to rest on shingles to provide even more space.

To help in repairing roof, you hook it over ridge to hold ladder on slope.—*Clayton Mark and Company, Evanston, Illinois.*



Right-angle drive. Attachment makes it easier to work in corners or other tight places with ¼-inch electric drill. The gears run in sealed grease chamber; bronze bearings are self-oiling.—*Millers Falls Company, Greenfield, Massachusetts.*

Fence anchor. It's not necessary to dig down to place this anchor. It "screws" into the soil with a small crowbar or pipe section. The 4" size holds 1,500 pounds; the 6" one, 2,500 pounds. It can be used to anchor grains bins, litter carriers, too.—*A. B. Chance Company, Centralia, Missouri.*



Tractor-mounted loader. Features of this unit include ability to push, load, stack, and lift 3,000 pounds up to 27 feet in the air. Attachments include a hay basket 12 feet wide with hydraulic push-off device; manure bucket, 11 cubic feet capacity; a forage fork; 6½-foot dozer blade; 4-feet-square platform; a V-snowplow, 6′ 8″ wide.

Unit mounts with 6 bolts.—*American Road Equipment Company, 4302 North 28th Street, Omaha, Nebraska.*

From "pig snout" gatherers to hog-clean husking...

McCORMICK® PICKERS

put more corn in the box

- Wide, low-sloping gathering snouts root under down and leaning stalks. Triple gathering chains and low-incline snapping rolls assure maximum ear saving.
- Clean picking in tough corn with cast steel, spiralled snapping rolls. Roll spacing easily adjusted to big or little, damp or dry stalks.
- Steel-against-rubber husking rolls—tension adjustable for clean husking, even when husks are dry and brittle.
- Long life and easy daily servicing with high-quality construction, including stretch-proof roller drive chains, anti-friction bearings, and high strength, wear-resistant sprockets of new "nodular" iron.

WHY the No. 2-ME is noted for clean husking: husking bed for *each* row has four long rolls, alternate steel and rubber. Rubber rolls reversible for double life. Ear forwarders hold ears to rolls for positive husking, even in dry corn. Slatted conveyors beneath rolls clean out husks. Conveyors catch shelled corn. Fans clean out dust, silks and trash.

McCormick No. 2-ME mounted picker, noted for its ability to keep going and husk clean in the heaviest corn and the toughest conditions. TWO husking beds. New, wider, deeper rear-delivery elevator. Steerable divider. Mounts on Farmall Super M-TA or earlier models—you open fields without hand husking or running over unpicked rows.

NEW McCormick 34HM-20 mounted two-row picker with in-line snapping and husking rolls—ruggedly built for big-capacity, low-cost picking. Mounts on Super M-TA, Super H, or earlier Farmalls.

NEW McCormick C-10 one-row mounted picker for quick mounting on Farmall Super C. Lowest-cost mounted picker. Capacity for fast, efficient picking and husking, 7 to 10 acres a day.

Two-row pull-type, McCormick No. 2-PR. Ten-roll husking bed for exceptional capacity and clean husking. Rear-delivery elevator. Hitch easily adjusted to fit any type or make of tractor.

One-row pull-type, McCormick No. 1-PR. Same wide, low-slope gatherers as the two-row model. Six-roll husking bed provides more than 500 square inches of husking area for big capacity.

Send for FREE cost analysis chart—Compare the savings you'll make from cleaner picking and lower maintenance with a new, more efficient McCormick picker. Send coupon today—then visit your IH dealer and *see for yourself*.

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International Harvester products pay for themselves in use—McCormick Farm Equipment and Farmall Tractors . . . Motor Trucks . . . Crawler Tractors and Power Units . . . Refrigerators and Freezers—General Offices, Chicago 1, Illinois

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☐ No. 2-ME two-row mounted ☐ NEW 34HM-20 two-row mounted
☐ New C-10 one-row mounted ☐ No. 2-PR two-row pull-type
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Name _____ ☐ Student

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Acres of corn to pick _____

My IH Dealer is _____

THE LADY'S *FREEZING!* She's quick-freezing food in the special super-cold compartment of the new Admiral Dual-Freeze Home Freezer.

QUICK-FREEZE QUICK!

Now you can sharp-freeze your fresh foods first—and fast—without changing the steady, efficient freezer-cold in the rest of the cabinet. Built right into Admiral's DUAL-FREEZE home freezers there's a separate section just for that. Here it's much colder than the rest of the cabinet. Holds a lot, too—over 77 pounds of food. Works fast to catch foods at their best, make them ready for regular freezer storage.

It's just one fine advantage of Admiral's new DUAL-FREEZE home freezers. See the complete line of Admiral Freezers at your Admiral dealer's now.

THREE UPRIGHT MODELS
THREE CHEST-TYPE MODELS

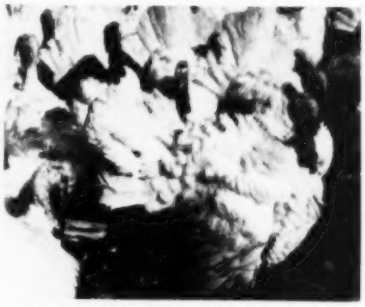
Admiral

HOME FREEZERS

SUCCESSFUL FARMING'S NEWS IN PICTURES

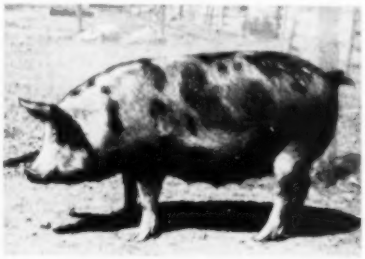
Congerville, Illinois—Not an invader from outer space, but a high-clearance anhydrous applicator. Machine is used for late side-dressing of corn when plants outgrow regular applicators.

However, the owners point out that earlier side-dressing is preferable, as there usually is a greater response to nitrogen.



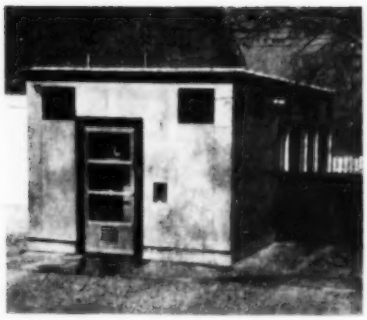
Aitkin, Minnesota—Large white turkeys—heavyweight counterpart of Beltsville Whites—are moving in Midwestern turkey-producing areas. Light feathers make possible a clean-looking dressed bird.

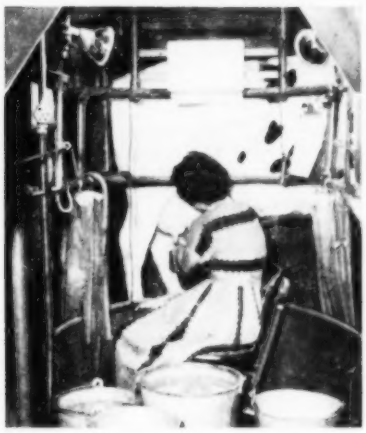
While not quite as large or uniform as Broad-Breasted Bronze, they compare favorably in maturity and efficiency of gains.



St. Paul, Minnesota—Another new hog breed—Minnesota No. 3—is in the making. Dr. L. M. Winters says boars are being put out only in limited numbers.

The foundation consists of boars from 4 breeds—Welch, Gloucester Old Spot, Large White, Beltsville No. 2—crossed with females of the University's "C" line of Poland China and San Pierre.





Geneva, Illinois—A steel and plastic prefabricated milking parlor and milk-holding room has been developed by the Hervey Research Development Corporation. The complete unit (see picture above) can be fitted to existing farm buildings.

Features of unit are its compactness, direct handling of milk from cow to cooling tank, and a handy arrangement of equipment, permitting operator to wash, milk, and feed from a swivel chair. Three stalls are used—two for milking, one for preparation.

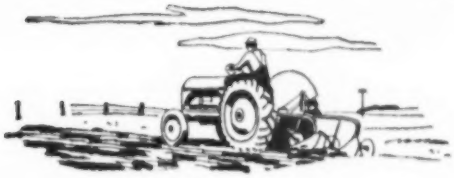
Photographs: Pease, Hunt, Swanson

Ithaca, New York—A portable wood chipper makes useful bedding and mulches of waste brush and trees (up to 6") from farm woodlots. Outfit above chips 2½ tons an hour—blows chips directly into a truck. The size of cut can be adjusted.

Cornell agricultural engineers estimate the cost of chipping from $5 to $6 a ton. A year's supply of bedding can be put up in one or two days. About 50 chippers are in use in the state of New York.

New life for farm engines

AC OIL FILTERS



Keep your engines full of life — smooth and responsive, powerful and economical! It *can* be done — and the key factor is just this simple — change your oil filters regularly, and be sure you use a genuine AC Oil Filter each time you change.

Here are some of the benefits you get when you protect your engines with AC Oil Filters. The clean oil you buy is *kept clean.* Every tiny particle of dirt, grit, metal is filtered out — *trapped* so it cannot circulate and injure the smooth, close-fitting parts that make a modern engine so efficient. Full, clean-oil lubrication is furnished *all* the time, not just when oil is freshly changed. Install a new AC Oil Filter at factory-recommended intervals.

WINGED performance for your car

These famous Spark Plugs in car, truck or tractor bring you the power-boosting, gas-saving advantages of AC self-cleaning patented insulation material.

HEART of your car's performance

Every gallon of gasoline you use must be fed by your fuel pump to your engine's carburetor. When a fuel pump is several seasons old it is wise to replace with a new AC *before* normal wear becomes serious.

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Better alfalfa yields with ARAMITE®!

Bigger dollar yields for you!

Treat your alfalfa with Aramite, today's safest, strongest mite-killer and you'll treat yourself to a far more marketable crop this coming hay season. A small per-acre investment in Aramite brings you a far better mite-free yield—many more dollars in your pocket.

Aramite provides superior, longer-lasting mite control on those Atlantic, Pacific, Two-Spotted and Septanychus species that can eat away your alfalfa profits. And easy-to-apply Aramite mixes well with most insect and fungus-killing chemicals, is non-hazardous to humans and animals as well as to beneficial mite-eating insects.

Order Aramite or formulations containing Aramite (including Ortho-Mite, Geigy Aramite, General Aramite, Niagaramite, PENCO Aramite, Stauffer Aramite, Black Leaf Aramite) from your local supplier today and watch your profits grow.

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ELM STREET, NAUGATUCK, CONNECTICUT
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THE FARMER'S WASHINGTON®

- **Bid for the farm vote in key farm states**
- **Seek way to guarantee parity for fluid milk**
- **Ike backs Benson on big issues—they win**

By Richard Wilson

President coming your way. Watch for President Eisenhower this fall. *The president has to take an important part in the congressional campaign, and he knows it.* Ike will be on the airwaves and in the farm areas *in person* to back candidates for Congress.

The president knows Republicans can't afford to lose in these important Midwest elections: Iowa, Illinois, Minnesota, Michigan, Ohio. Senatorial contests in these states may determine the political complexion of the *next* senate.

In Iowa, the farm question may determine whether Democratic Senator Guy M. Gillette has to give up his senatorial seat to Republican Congressman Tom Martin. In Minnesota, Senator Hubert Humphrey is making hay among the farmers to keep his senatorial seat. The downstate and farm vote may unseat Senator Paul Douglas in Illinois. And, if Senator Homer Ferguson wins again in Michigan, it'll be because of the outstate farm vote.

Ike firmly committed to Benson. About every three weeks, someone spreads a rumor that Agriculture Secretary Benson is about to resign. Thinking of the administration on this subject is that Benson's resignation would be a *terrific admission of failure* on the part of the administration, since President Eisenhower is so firmly committed to the Benson line.

Truman and 90 percent. Watch Harry S. Truman if you want to know the real Democratic strategy to give a setback to the Republicans. He is going about the country urging that the present flexible price-support program be thrown out the window. Republicans admit that Truman is pretty keen on knowing how to appeal to farmers. *They learned this to their regret in 1948.*

Test strength of Farm Bureau. As Congress heads into the homestretch, it will be interesting to see if the *sureness* of the Farm Bureau's politicians proves to be justified. They are *sure* about their ability to get through Congress their own compromise, which is a slight adjustment of the sliding parity scale. The Farm Bureau representatives, like Roger Fleming, think that Congress is *not* set to continue fixed parity at 90 percent. All the agitation comes from the Wheat Belt, they say.

One reason the Farm Bureau is so sure is the prospect of a *presidential veto.* But President Eisenhower in his press conferences is pretty cagey on the subject. He says, in effect, that he can't forecast what he will do until he *sees* the legislation.

How price support works. Senator Aiken of Vermont, chairman of the Senate Agriculture Committee, decided to check up to see just what was happening as a result of the *drop in price supports for butter.* He checked in Minnesota.

Aiken found that some operators said they planned to pay about 72 percent of parity for milk and 82 percent for butterfat during April. This would *average* out, if projected on a national scale, to more than 75 percent of parity. But what about the farmer who sold *only* milk? He would get *less* than the guarantee.

Aiken says the government just *hasn't figured out* how to guarantee to the farmer that he will get what he is supposed to get for fluid milk. It's up to Benson to deliver on the promise of 75 percent of parity as provided by law.

More on Red trade. Some offers are still coming in from the Soviet government for surplus farm products. Mostly, the Russians want oils because of a domestic shortage. So far, the Commerce Department is the main block to any deals. Sinclair Weeks, commerce secretary, says he *isn't opposed* to such deals, but he wants to make sure *they are a good deal for us as well as for Russia.*

Sure way to win. Every time Benson gets into a big fight, he *wins* it. He does not win it, however, until President Ike has gotten into the picture. First, there was the reorganization of U.S.D.A. Congress objected, Ike backed Benson, and the reorganization went through. Then there was Benson's decision not to support live-cattle prices, and this was followed by the fight over cutting dairy supports. Each time the president backed up his secretary of agriculture. Then followed the wool bill, and the attempt to attach to it the 90-percent-of-parity proposal. This was another administration victory, with the president figuring in it. *So far, they've won all the battles.* **END**

NEW WAY to make lower-cost MEAT and MILK

from feeds you grow!

The "spark" for better digestion of the entire ration your cattle eat is quality feed containing ARCADIAN* Urea Feed Mixture

Low-cost meat and milk production depends on the idea of balanced feeding for the bacteria in each animal's rumen or first stomach. The better these bacteria are nourished, the better they break down and convert grain and roughage eaten by cattle into nutrients the animals can digest. This makes meat and milk production more economical—you get more out of every scrap of feed.

You "spark" this breakdown of feeds for better digestion by supplying quick sources of energy and protein for rumen bacteria to thrive on. They grow faster if part of the nitrogen for protein comes in the quickly-available form of ARCADIAN Urea Feed Mixture—and also if some of the energy is quickly available from the starch of grain or the sugar of molasses. Better-fed bacteria break down more of the cellulose and other fiber in roughage and grain, releasing more nutrients from inside the fibrous cell walls. Thus, feed value otherwise wasted goes into making valuable meat and milk.

Better feeding of both the rumen bacteria and cattle is made possible by using high-quality supplements that contain ARCADIAN Urea Feed Mixture. Such quality feeds supply essential nutrients needed to balance those in roughage and home-grown grain, stimulating rumen fermentation profitably.

Beef herds on dry range or poor hay do better with a quality supplement containing ARCADIAN Urea Feed Mixture, which unlocks extra feed values in roughage. Because urea is a rich source of protein, it makes room in the concentrate for extra minerals, vitamins and energy. Results show up in better growth, better wintering and bigger calf crops. Feed lot cattle also make lower-cost gains with rations containing ARCADIAN Urea Feed Mixture.

Dairy cows need plenty of good roughage and high energy feeds to maintain good milk flow. They get more out of all feed when the concentrate contains as little as 5 to 15 pounds of ARCADIAN Urea Feed Mixture per ton. You can get urea in regular mixed dairy feeds or in supplements for mixing with home-grown grains.

Arcadian

UREA FEED MIXTURE

The benefits of urea are widely acclaimed by Experiment Stations, ranchers and farmers. Urea helps provide you with high-quality mixed feeds and concentrates. Results show that it develops extra feed values from the entire ration. See your feed dealer today for feeds containing ARCADIAN Urea Feed Mixture. Ask him also for booklets on how it works, or write to the address below.

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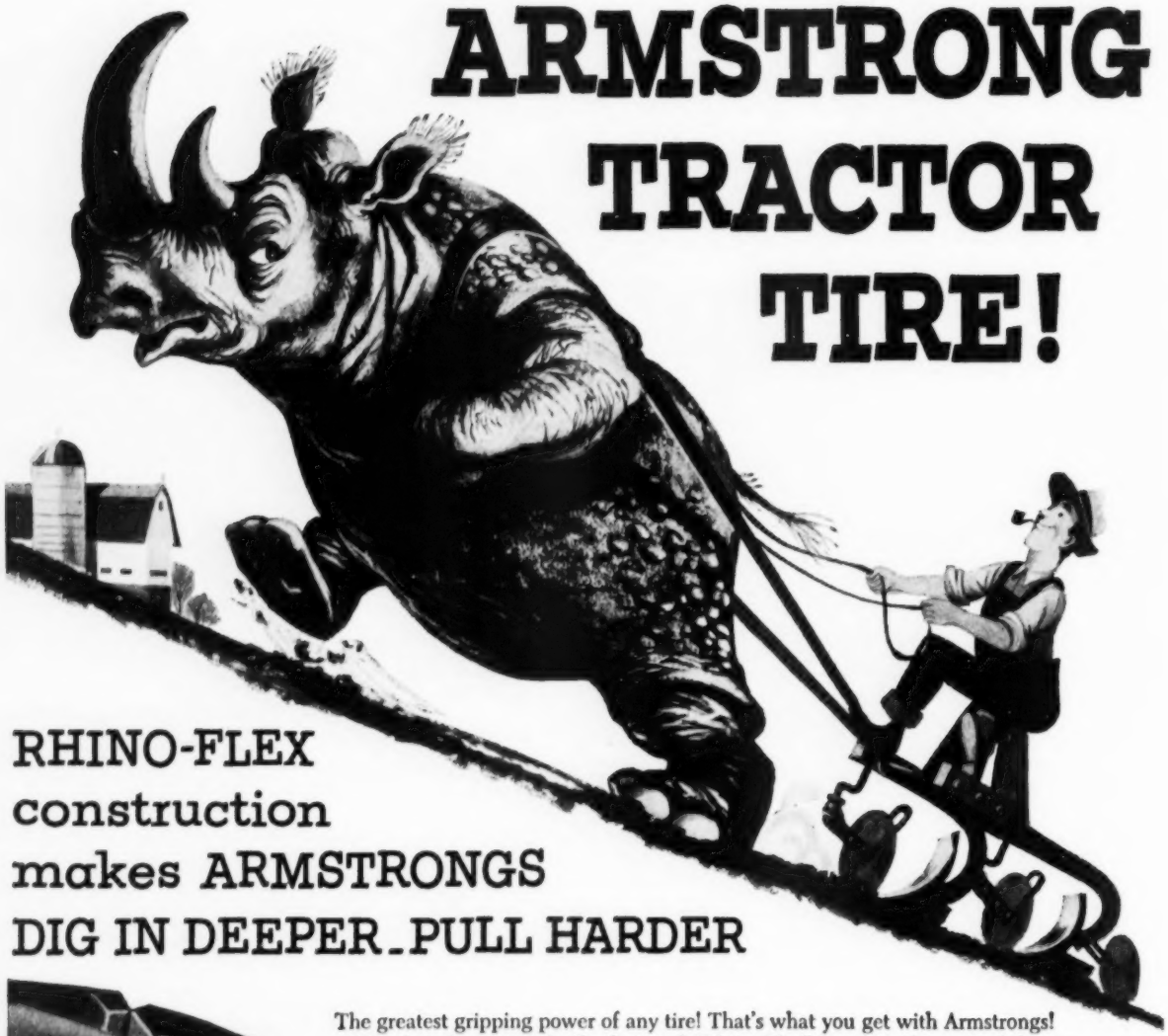
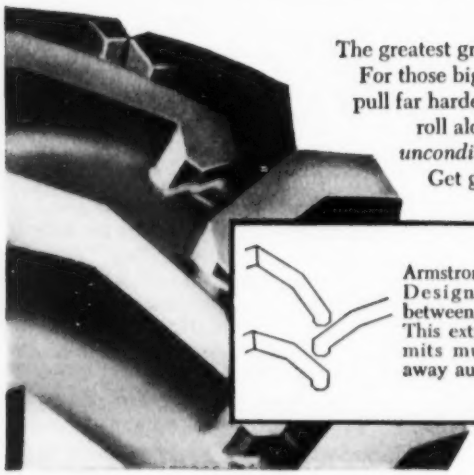
NOTHING PULLS LIKE AN ARMSTRONG TRACTOR TIRE!

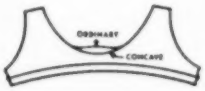


RHINO-FLEX construction makes ARMSTRONGS DIG IN DEEPER_PULL HARDER



The greatest gripping power of any tire! That's what you get with Armstrongs! For those big scientifically-designed "Rhino-Flex" lugs bite the ground deeper — pull far harder. They laugh at mud and slush — actually clean themselves as they roll along. And as for wear — wow! Armstrongs are so tough, *they're unconditionally guaranteed for 2 years* — with no limit whatever on mileage. Get genuine Armstrong "Rhinos" . . . and get extra traction, wear — *value!*

Armstrong's Double Angle Design widens space between bars at tread edge. This extra-wide space permits mud to be cleaned away automatically!



Ordinary tires bulge at base of cleats. But Armstrong's exclusive concave design increases tread depth to give you greater gripping power, stronger pull.

NOTHING WEARS LIKE

ARMSTRONG Rhino Flex TRACTOR TIRES

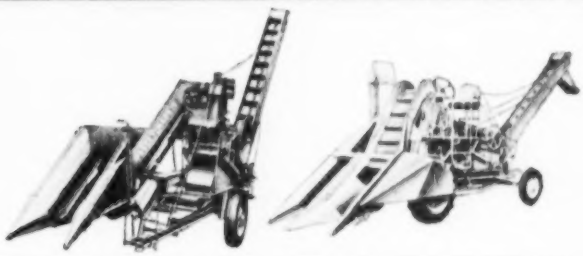
WEST HAVEN, CONN., NORWALK, CONN., NATCHEZ, MISS., DES MOINES, IOWA, SAN FRANCISCO, CALIF.

Less to get ready...

when your corn says GO

• Quick attachable — 1 man, 1 hour • 37½-inch snapping rolls • Special bearing points protect snapping rolls from dust • 45-inch husking rolls — 1 iron, 1 rubber • Balanced weight — 85% over the tractor's rear wheels • Low gathering chains (4) • Full-floating snouts • Built low — easy to get on and off your tractor • Wide, roomy elevator — adjustable wagon loading chute.

Massey-Harris CORN PICKERS



New 1-row Pull-Type Massey-Harris picker brings big capacity corn harvesting to every grower at a new low price. Covers up to 12 or 15 acres a day. 45-inch husking bed . . . 37-inch snapping rolls . . . full-floating snouts . . . ground hugging gathering chains . . . efficient corn saver.

The 2-row Self-Propelled Picker puts large acreage and custom harvesting on a higher profit basis. Seated high out of the dust and dirt, you hold to the row easier . . . cover more acres faster . . . pick cleaner. Has the biggest capacity husking bed in the field. Proved best 2-row in National Corn Picking Contest.

Mounted, pull-type, self-propelled

THAT'S the wonderful advantage to owning a Massey-Harris. It takes so little time to attach. Even with the mounted picker you can actually get in a couple hours of harvesting the same morning you hook-up to your 33, 44 or 44 Special tractor. It's this easy.

Drive right into the front section . . . back into the elevator and hopper secion. By actual test experienced men have completed the hook-up by themselves in an hour or less.

Out in the field your harvest takes on new ease. Balanced weight gives the Massey-Harris better traction, easier handling in soft or slippery fields. Almost 85% of the picker's weight is carried over the tractor's rear axle.

And those ground-hugging, full-floating snouts bring in all stalks — down, tangled or leaning — and lay them into the low gathering chains.

Long snapping rolls clean every stalk . . . get nubbins and all. They reach low to the ground . . . take a firm hold on the stalks . . . run them through smoothly. Bearings are located out of the dust . . . last longer, reduce maintenance.

Rubber and iron husking rolls do a complete job of cleaning — gently — thoroughly — with less shelling or cracking. They're 45-inches long and each ear travels the entire length.

It's this same construction that did so much to establish the Massey-Harris Self-Propelled as the champion 2-row picker in the National Corn Picking Contest.

See these Massey-Harris Corn Pickers at your nearby Massey-Harris dealer's. Be your own harvest crew this year — and make your corn crop more profitable. For folder, write The Massey-Harris Company, Inc., Dept. G-110, Racine, Wis.

Make it a Massey-Harris

Parts and Service through more than 2500 authorized dealers

Full-floating snouts follow land contour

45-inch husking bed cleans quickly, thoroughly

Long snapping rolls get more corn — nubbins and all

Wide elevator with deflector for uniform wagon loading

Gathering chains hug the ground . . . take firm hold

Corn saver delivers shelled corn to wagon . . . assures full crop

The Thing Nobody Can Add to Oil

It is a credit to the whole oil industry that its products have kept pace with the requirements of car manufacturers.

Today's engines, with their high speeds and high compressions, required new oils. In order to develop these motor oils, it proved both necessary and helpful to use certain chemical additives.

These *additives can be added to any oil.* To very good oil. To very poor oil.

But there is one thing nobody can add to oil: a basic quality. That basic quality, provided by nature, is what really determines the kind of lubrication your motor gets.

That's why we say:

Today's BEST oils start with Nature's BEST crude

Pennsylvania Motor Oils are endowed with outstanding natural toughness.

Skillfully refined from Nature's best crude oil *and fortified by carefully selected additives,* they stand up longer against the demands of modern engines.

Keep the power you bought

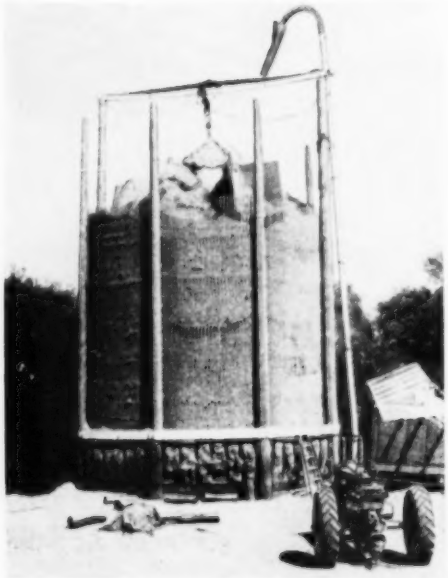
***INSIST* on a brand of**

PENNSYLVANIA Motor Oil

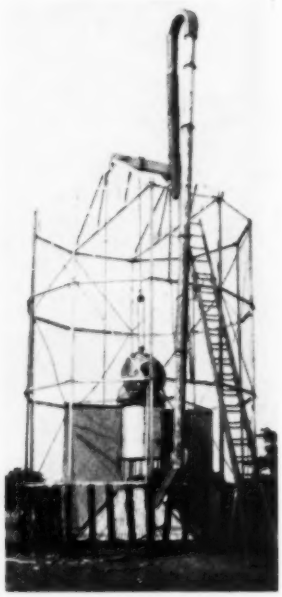
PENNSYLVANIA GRADE CRUDE OIL ASSOCIATION
Oil City, Pennsylvania

SUCCESSFUL FARMING REPORT

Newest in hay self-feeders



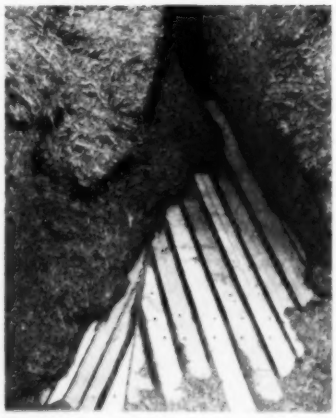
Structure above tapers in about 1 foot at top. Capacity is 40-50 tons, diameter is 23', poles are 35' long. Tube, 3' by 6' long, is pulled up as hay fills. Swinging guards let animals reach 4-5', stop waste



By Hobart Beresford
Iowa State College

You can eliminate 90 percent of the labor in feeding artificially dried chopped hay. So say Iowa State College agricultural engineers after 4 years' work in cooperation with dairy and animal husbandmen. The device making this possible, located at the Ankeny Field Station, works on these principles:

Sides taper to relieve side pressure; slotted cone slides hay to manger; metal cylinder raises as unit fills and forms air duct; fins—attached to cylinder—form cleavage planes to separate mass; swinging guards let cattle reach 4-5 feet.



Four fins break hay mass—cone "splits" it at bottom. Fan, *in* tube or outside blowing *through* cone slots, dries hay

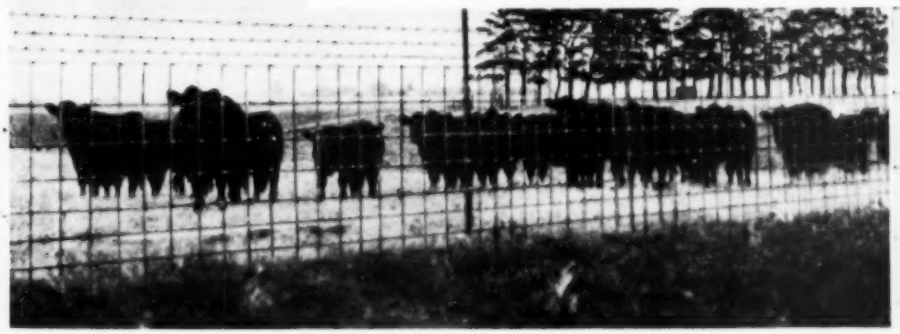
Photographs: Author

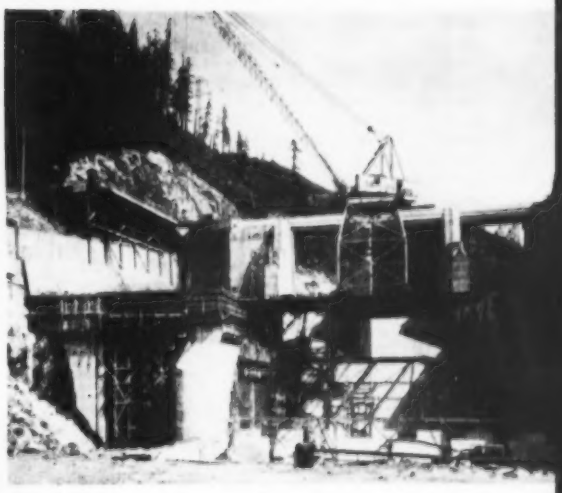
Capacity of self-feeders above manger

Storage diameter	Air-passage diameter	60-degree cone diameter	Tons per foot of height
14'	3'	10'	0.75
16'	3'	12'	1.00
18'	4'	14'	1.20
20'	4'	16'	1.50
22'	5'	18'	1.80
24'	5'	20'	2.12

Only STEEL can do so many jobs so well

It Stays Stretched. That's what George Unkrich of Mount Pleasant, Iowa, says about USS American Fence. "Once you stretch it tight," he comments, "it *stays* stretched!" Mr. Unkrich, with one of the finest herds of pure bred Angus in the country, has been using American Fence on his Angus farm for 30 years.





Boosts Wheat Yield 25%. Applying 300 pounds per acre of 8-8-8 high analysis fertilizer as a top dressing on a 19-acre wheat field, Mr. Julius Broerman of St. Marys, Ohio, reports that his crop averaged better than 50 bushels to the acre . . . 25-35% better than previous crops from the same field. One of the best sources for nitrogen in 8-8-8 and 10-10-10 fertilizers is USS Ammonium Sulphate . . . the same dry, free-running product of steel-making that has proved so popular with farmers for direct application to pasture and crop lands.

Big Cliff Dam in Oregon is arresting evidence of the fact that only steel can do so many jobs so well. In all phases of construction and operation, steel plays a vital role: from giant penstocks to craneways; from huge steel gates to reinforcing bars buried out of sight in the concrete. Big Cliff Dam is 180 feet high, 295 feet long.

"Safe on Arrival." 500 pounds of cotton is a lot to compress into a neat, tight bale like this . . . and *keep* securely bound during shipment. But USS Arrow Cotton Ties, made by U.S. Steel, do the job. They're tough steel bands that can stand the gaff of travel without loosening or cutting through at the buckles.

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Bringing Up Baby

HINTS COLLECTED BY

Mrs Dan Gerber

(MOTHER OF 5)

Mrs. Dan Gerber

Hot weather has a bothersome way of bringing uncomfortable prickly heat with it. Old-fashioned remedies are as good today, however, as they were in grandmother's time. When your baby suffers from this minor irritation, try this: bathe baby in tepid water with a teaspoon of baking soda added. After a leisurely bath, sprinkle your darling liberally with baby powder—avoid too many clothes, the cause of most perspiration.

Hot weather menus for baby should be lower in starch and sugar . . . high in nutritive fruits, vegetables and meats. Easy . . . with the appetizing variety of Gerber's Strained Fruits, Vegetables and Meats. Processed for high retention of good food values and pureed to a super-smooth texture. As a consequence, they have the good-feeling consistency and mild, true flavors particularly pleasing to a young baby. Good to know, too, that Gerber's Baby Foods are guarded by specialists who concentrate on making baby foods . . . and nothing else.

Shining Idea. If baby's nursing bottles get that cloudy look, chances are it's because of hard water. A tablespoon of lemon juice or vinegar in the sterilizing water makes the bottles come out crystal clear.

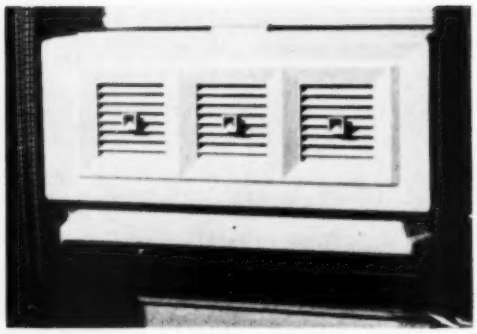
Nipple tip. Nipples should be washed as soon as possible after using, since butter fat deteriorates rubber. Detergents are best, especially in hard water.

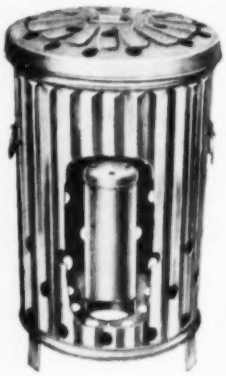
Daily must in baby's diet. Babies (like adults) should have a daily ration of Vitamin C—since this important, tissue-building element cannot be stored in the body. Gerber's Strained Orange Juice . . . processed just for little ones . . . is the answer. Made from tree ripened oranges, selected for high Vitamin C content and mild, natural flavor. Gerber's Orange Juice is carefully pasteurized for baby's protection. Then it's homogenized and finely strained for easy digestibility. Can be fed from bottle, cup or spoon. Best of all, you are assured of uniform quality the year around.

GERBER'S BABY FOODS, FREMONT, MICHIGAN

WHAT'S NEW IN HOMEMAKING®

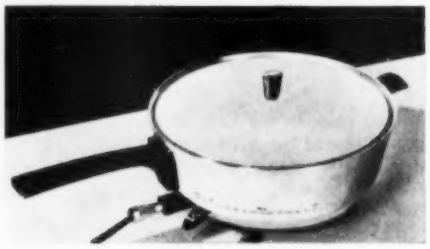
All-year air conditioner cools a room in summer, warms in winter. Push-button controls give choice of 10 settings to cool, filter, and dehumidify summer air. For chilly days, there's a 1300-watt heating element. Grills adjust to direct air any direction. No installation—plug into any 115-volt, AC outlet. About $400.—*Westinghouse Electric, Mansfield, Ohio.*





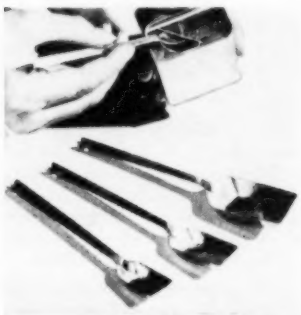
◄ **Outdoor incinerator** safely disposes of up to 4 bushels of rubbish at a time. Heavy-gauge galvanized steel. About $7.95 at department, hardware stores.—*Rochester Can Company, Inc., 100 Greenleaf Street, Rochester 9, New York.*

Electric lawn trimmer has rubber wheels, operates from a standing position. Makes it quick and easy to trim along walks, drives, and trees. For 110-120 volts. At garden equipment stores, about $29.95.—*Seymour Smith & Son, Incorporated, Oakville, Connecticut.*



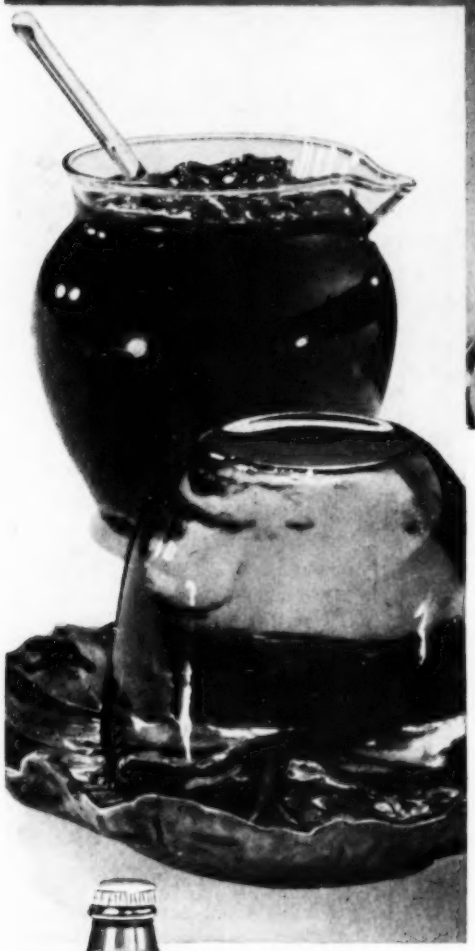
Electric skillet can cook right at the table. Select the perfect heat for anything from eggs to casserole concoctions. Skillet is aluminum with "Silversmith" finish. It has Bakelite legs to protect table. At stores, it's about $27.95.—*National Presto Industries, Eau Claire, Wisconsin.*

Outdoor gym outfit gives kids hours of healthful play. Only two bolts are required to assemble the frame of this Merriplay. Ten-foot slide has galvanized bottom; swings have oil-impregnated bearings. Sold by furniture, hardware stores. About $80.—*Goshen Manufacturing Company, Goshen, Indiana.*



Measuring spoon "scoop shovels" of heavy stainless steel dig into deep container easily, measure accurately ¼, ½, or 1 teaspoon, and 1 tablespoon. About $2.95 at department and hardware stores.—*Ekco Products Co., Chicago, Illinois.*

Homemade Jams and Jellies Taste Best...Cost Less!



Make them the easy, sure way with Certo or Sure-Jell pectins*!

FOUR BIG REASONS WHY it's so easy, quick and economical to make jams with Certo or Sure-Jell, the *natural* fruit pectin products:

1. You boil just *one minute*—save fresh-fruit flavor.
2. You're finished 15 minutes after your fruit is prepared.
3. You get 50% *more glasses* from the same amount of fruit than by the old-fashioned long-boil method.
4. You're sure of *perfect* jams and jellies every time when you follow the recipes exactly.

***What is pectin?** It's the natural jellying substance found in all fruits in varying amounts. You need the right balance of pectin, acid and sugar for jams and jellies to "set." Certo and Sure-Jell are concentrated *natural* fruit pectins. Follow recipes exactly and you will *be sure* to have the *right amount* of pectin for perfect "set."

It's Raspberry Season! Have you ever made Red Raspberry Jelly? So easy, so delicious!

Ingredients: 2½ quarts raspberries, 5½ cups sugar, 1 box Sure-Jell powdered fruit pectin.

Crush the fully ripe berries. Place in jelly bag and squeeze out juice. Measure sugar and set aside. Combine raspberries and Sure-Jell in a large saucepan. Place over high heat and stir until mixture comes to a hard boil. Add sugar at once. Bring to a *full rolling boil* and *boil hard 1 minute,* stirring constantly. Remove from heat. Skim off foam and pour immediately into jelly glasses. Cover at once with ⅛ inch hot paraffin.

If you prefer a *liquid* pectin, use Certo and follow RED RASPBERRY JELLY recipe in the booklet attached to the Certo bottle.

CERTO OR SURE-JELL. Take your choice . . . a liquid or powdered *natural* fruit pectin product.

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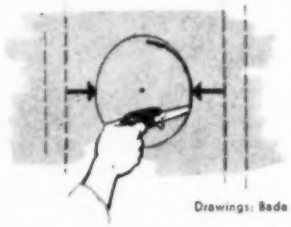
Install your own . . .

Kitchen-

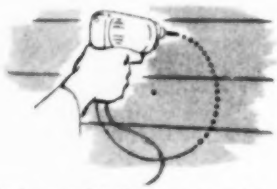
There is more than one way to put in a kitchen ventilating fan. Four good ways are shown here



Drawings: Bade

1 Mark the area for fan opening. Tap on wall to determine stud space, check in basement to determine whether water pipes or other obstructions are in area. Inspect house outside, decide how the fan will look

2 Cut out inside wall, remove enough insulation to expose sheathing. Insert fan sleeve. Then, center circle of cardboard in metal sleeve, mark sheathing through center hole. Drill small hole in the siding

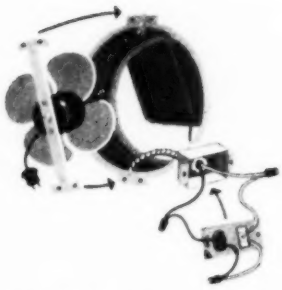


3 Using small hole as center point, make a circle on outside wall ¼″ larger than outside sleeve. Drill series of holes along circle, then saw out opening. Snake wiring through wall cavity, insert sleeve in hole

4 Align outer sleeve assembly by sliding inner sleeve into place. Make it plumb, and insert screws to hold housing tight. Fill large cracks with oakum, put calking compound in next; also in rest of openings

DO IT YOURSELF

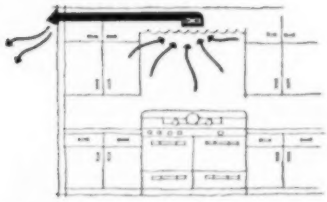
cooling fan



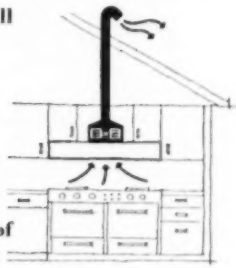
5 With No. 14 wire through inside sleeve, and sleeve screwed into place, insert wires through outlet box. Use special clamp to hold securely. Fasten wires to switch-receptacle plate. Attach black to black and white to white with screw connectors.

Push wires into outlet box, fasten box to sleeve, mount fan motor assembly, plug motor plug into receptacle. Your fan may have a wall switch instead of the chain-switch type shown in these illustrations.

Here are ways to install fans for an inside wall location

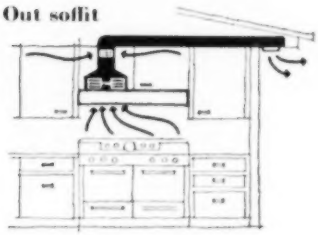


Through wall



Through roof

Out soffit



Prefabricated ducts make locating fan above range simple, even if range is placed on *inside* wall. Several fan speeds keep noise at a minimum except when moving much air. Consider buying fan with grease-removing filter, inlet at ceiling *or* in hood

New Colgate Dental Cream with GARDOL*

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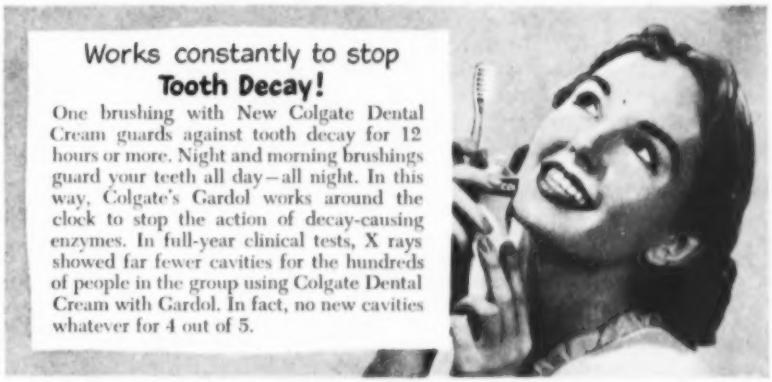

while it GUARDS YOUR TEETH!

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Every time you brush your teeth with New Colgate Dental Cream, Gardol binds itself to your teeth . . . remains active for 12 hours or more. That's why Gardol, Colgate's long-lasting anti-enzyme ingredient, gives the surest protection against tooth decay ever offered by any toothpaste—leaves your mouth cleaner, fresher for 12 hours or more!

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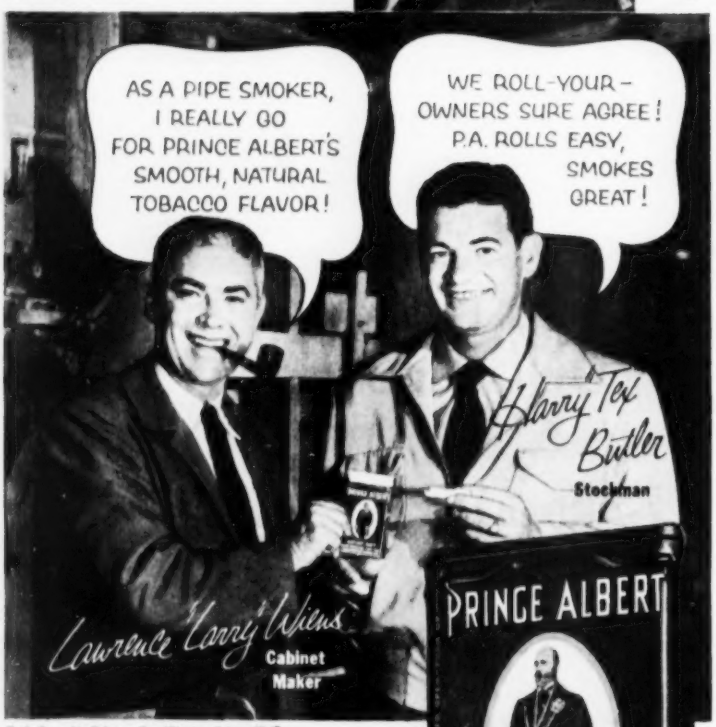

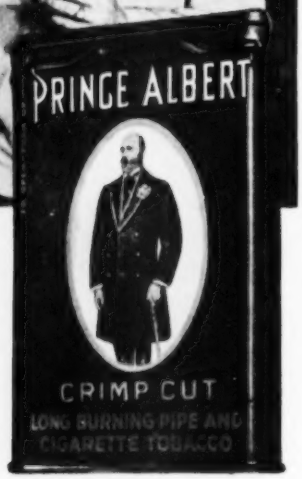

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BUG OF THE MONTH

Chinch bugs are back

Chinch bugs may reach damaging numbers in nine Midwestern states this season. United States Department of Agriculture maps show the largest danger area to be in north-central Illinois and northeastern Indiana. Other potential trouble areas are northeastern Arkansas, southeastern Missouri, south-central Illinois, northeastern Indiana, and northwestern Ohio. Local trouble spots are possible in areas of east-central Oklahoma, southeastern Kansas, southeastern Nebraska, and southern Iowa.

A hot-weather insect. If the early part of the growing season is hot and dry, be on the lookout. Watch for news of outbreaks from other areas, and pay particular attention to your corn next to winter grains. Wilted or sickly looking corn plants in the border rows are danger signs. The full-grown bugs are about $\frac{1}{5}$ inch long with white wings, each wing bearing a triangular black spot at the middle of its outer margin. The young chinch bugs are reddish or grayish-black in color.

Insecticide strips used. Chinch-bug control is based on the fact that the bugs normally crawl from small grain to the corn or sorghum. Insecticidal barrier strips along the field margins where small grain and corn join now replace the old mechanical barriers.

These insecticide strips need to be only 1 to 3 rods wide when they are applied in time. It is important that the edge of the small-grain field be treated before the bugs leave it, as well as the edge of the corn or sorghum field that is to be protected.

If the fields are separated by a grassy fence row, this should be thoroughly treated. Two applications made a week to 10 days apart may be needed in severe cases.

Dieldrin, toxaphene effective. Several insecticides are effective against chinch bugs. Dieldrin at $\frac{1}{2}$ pound per acre ($1\frac{1}{3}$ gallon of the standard emulsifiable concentrate) has given excellent results. Toxaphene at 2 to $2\frac{1}{2}$ pounds per acre has also given good control.

For best results, use a ground sprayer calibrated to deliver at least 10 gallons of spray per acre. Set the nozzles to spray only the soil surface and the lower parts of the plants. Where grain growth is heavy, it may pay to mow and remove it before spraying.

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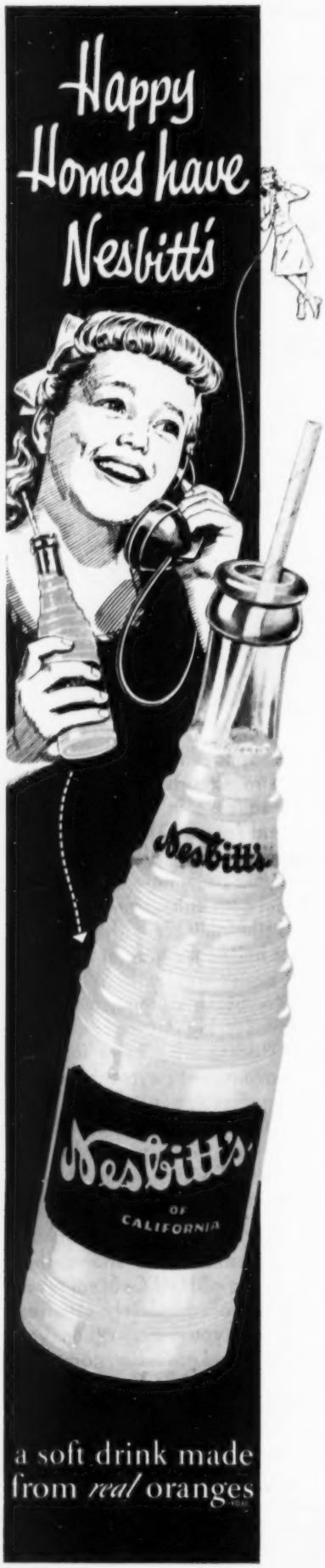

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July, 1954 Vol. 52, No. 7

Management and Business

News of the month 4
Farm outlook for July 6
Friend to friend 8
News in pictures 12
The farmer's Washington 14
What's been gained by the milk price cuts? 29
How we're cutting costs 30

Farm Building and Machinery

What's new in farming 10
Newest in hay self-feeders 18
Install your own kitchen-cooling fan 22
Gates by the dozen 32
Good for another 59 years 40
How to buy a used combine 44
Successful shortcuts 70
All around the farm 80

Herds, Flocks, Crops

Chinch bugs are back 24
I can't afford not to feed beef 46
Molasses 41
Why I like a one-litter system 42
How to get the most seed 45
Soils and crops 52
Stop blossom-drop 55
Livestock 58
How to handle a bull - safely 62
Poultry 64
Tips for dairymen 75
Veterinary 77
Latest in livestock research 79

Successful Homemaking

What's new in homemaking 20
When you cook outdoors 34
A room to be proud of 35
Farm kitchens—cool and collected 38
Frosty-cool pies 36
Chilled milk drinks 49
Sandwiches 50
Tips for the cook 56
New refrigerators 60
Freezing and canning 68
Easy-ons for tots 72

Family Life and Fun

Laughing at life 67

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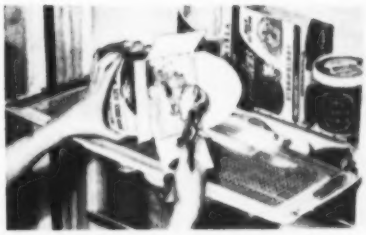
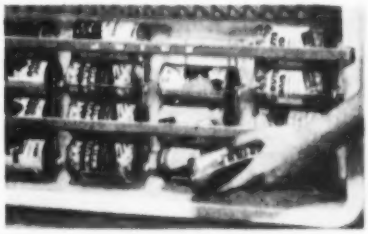
Holds 525 pounds! Yet this new 15-cubic-foot G-E Upright Freezer takes less than one square yard of floor area—no more than your refrigerator.

ABOUT $5.50* WEEKLY



Ice cream ready for serving!

Special Ice Cream Conditioner keeps a gallon and a half of ice cream at perfect scooping temperature.



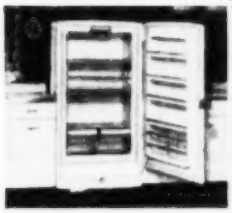
Fruit juice at your fingertips!

New frozen juice can dispenser keeps a full 16 cans of frozen fruit juice within easy reach.

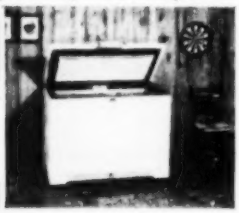
A place for bulky packages!

A hidden Stor-well at the bottom of the freezer comfortably holds bulky items such as hams, turkeys and large roasts.

A new, sensible way to buy freezer space!



For compact convenience in kitchen—11-cubic-foot G-E Upright Freezer



For roomy, bulk storage elsewhere—11-cubic-foot G-E Chest Freezer

Here's a wonderful solution for those who need 20 or more cubic feet of freezer space, but who haven't kitchen space for one of those "box-car-like" freezer chests. You can buy *both* G-E Freezers shown here and get 22 cubic feet of storage space. Ask your G-E dealer about this great combination offer!

ENJOY complete freezer convenience in your kitchen with the new G-E Upright Freezer. Every feature, from slide-out shelves to the handy frozen fruit juice dispenser, helps make the job of food storage and preparation *faster* and *easier*.

So very dependable, too! Every G-E Freezer has the same type of sealed-in refrigerating mechanism that has kept 3,500,000 G-E Refrigerators operating so efficiently for periods of 10 years and longer.

Choose from a complete line of upright and chest models. See your G-E dealer soon. General Electric Company, Appliance Park, Louisville, Kentucky.

**After small down payment. See your G-E dealer for exact terms. Prices and specifications subject to change without notice.*

GENERAL ELECTRIC

KEEP THEM OUT!

CRD

AIR SAC

SINUSITIS

NONSPECIFIC ENTERITIS

BLUE COMB

Follow this preventive program

Continuous HIGH LEVEL feeding of AUREOMYCIN*

CHLORTETRACYCLINE

"Much less disease...particularly AIR SAC and ENTERITIS... with HIGH LEVELS of AUREOMYCIN"

These are the words of a large broiler producer in the Delmarva area. The comparison figures below show the results from old flocks *before* AUREOMYCIN was fed . . . and the results from new flocks *after* AUREOMYCIN was fed *continuously* at 50 grams per ton of feed.

	Before AUREOMYCIN	*After* AUREOMYCIN
No. flocks	25	18
No. birds started	234,500	129,000
Mortality (%)	9.6	5.7
Av. Market Wt.	3.19 (lb.)	3.49 (lb.)
Feed per lb. of gain	3.24 (lb.)	3.03 (lb.)
Total market wt. per 1000 birds started	2,882 (lb.)	3,288 (lb.)
NET RETURN per 1000 birds started (figured on a 25c market)	$64	$119
EXTRA PROFIT, including cost of AUREOMYCIN, per 1000 birds started		**$55**

Why *wait* until disease has caused weight losses, poor egg production, feed waste, culls and dead birds? Feed AUREOMYCIN Chlortetracycline to chickens and turkeys *continuously at* HIGH LEVELS and prevent these losses! Give them *internal* sanitation with the antibiotic that knocks out MORE disease-producing germs!

Many poultrymen have already discovered that this new, preventive program is more profitable! They've compared feeding costs and profits of the new program with their former program . . . and seen the remarkable results obtained with continuous HIGH LEVELS of AUREOMYCIN. More birds saved! Heavier, top-quality meat birds! More eggs to sell . . . premiums for extra hatchability! Better feed conversion! And PROFITS . . . *several times higher!*

Talk to your feed dealer or feed mixer. He can advise you on the program of HIGH LEVEL AUREOMYCIN that best suits your needs.

* Trade-Mark

Fine Chemicals

AMERICAN Cyanamid COMPANY

Fine Chemicals Division

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On April 1, the dairy price support was lowered from 90 to 75 percent of parity. The three main reasons given for lowering the support price were: (1) to get the government out of the dairy business; (2) to lower the price to consumers, therefore moving more dairy products into consumption; and (3) to cut production of milk. This article is a roundup of results.

What's been gained by the

Milk price cuts?

What has it cost farmers? Price levels to farmers were not uniformly lower, but they *were lower*. Some dairymen in certain sections of the country received as much as *60 cents less per hundred pounds of milk*. Cuts to farmers in other sections amounted to 30 to 40 cents a hundred. The average price drop for the nation's dairymen was about 45 cents a hundred.

Has price to consumer dropped? Yes and no. Butter prices, in many stores, dropped immediately after the lowered supports were announced. Some stores sold butter for about 50 cents a pound. However, some of these stores soon boosted the price to 65 to 69 cents a pound. Apparently, little permanent increase in sales has resulted from the price drop of butter.

Consumers in some areas bought milk for 1 cent a quart less after the support price drop. In other areas, the price remained the same as before April 1. In the past, when the price a farmer received for 100 pounds of milk dropped 45 cents, retailers lowered the price per quart by 1 cent, as there are 45 quarts in 100 pounds of milk.

Has consumption gone up? Although it's still early to predict the final outcome, lowered prices for dairy products to consumers are *not* resulting in significantly higher consumption. Many stores report customers are only mildly interested in the slightly lower prices.

Although ways and means for increasing *butter* consumption have been the subject of most debates dealing with the dairy situation, methods of significantly increasing fluid-milk consumption have done much more to solve the problem.

Increased advertising and promotion of fluid milk—before prices to consumers were cut slightly by lowered supports—did increase fluid-milk consumption. This fact leads many people to believe that the answer to the dairy problem doesn't depend on slightly lower prices to consumers and sharply lower prices to farmers, but on more and better salesmanship.

Will the government buy less? Apparently not. It is expected that government stocks of dairy products will continue to grow larger even though supports were cut.

Will supports go back up? There is a good possibility that supports will not remain at 75 percent. Several bills have been introduced in congress to up the support figure. One bill calls for limiting a cut in dairy supports to not more than 5 percent in one year. Some sort of plan for increasing the present support level has a good chance of being passed this year. Indications are that if supports *are* increased, the increase will put the support at a little less than 85 percent.

Will production go down? No. The latest estimate is for a record production of 124 billion pounds of milk this year, compared with 121.2 billion in 1953. Midyear reports show an increase in the number of dairy cows in the United States, hence the prospect of record production.

What are farmers doing to offset lower milk prices?

A good many farmers plan to either add more cows to their herds so as to produce more milk, or to try for higher production from the cows they now have. Here are a few comments.

Vic Fansler, Illinois. "I'm going to milk more cows. Last year I milked 12. This year I'll up that to 20. I've raised these heifers that will freshen soon, and there isn't much I can do except milk them. I'm not going to sell them at present prices. And if milk is going to be lower, I'll have to produce more of it to wind up with a profit. I think a few small dairymen may get out of the business."

Bill Hitz, Iowa. "I'm not making any changes in the number of cows I milk. But I do intend to take better care of my cows in the hope of increasing production."

T. A. Burgeson, Missouri. "I have not made any changes in herd size yet, and I don't think I will. The feed and pasture situation is bad down here and will probably keep most farmers from increasing their herd size much."

Kenneth Caskey, Michigan. "I figure I'll produce more milk this year. And I hope I can reduce my costs a bit more. But I don't know how I'm going to cut costs much further. Better-quality roughage and less grain is about the only way I know."

You can cut down expenses. These farmers say: Here's

How we're cutting costs

Maybe you can't change prices, but you can knock the props out from under farm costs, say these farmers. Here are 17 of their best cost-slashing practices

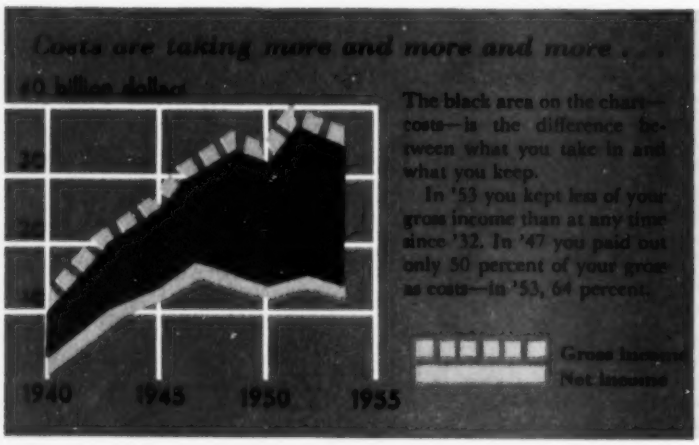
By Stan Geiser

Fred and Marvin Dement, Ohio

Modernize milking setup. We installed a bulk tank and pipeline to cut the cost of producing milk. Now, one man can handle 6 more cows than before. We save 5 cents a hundred in hauling charges and get a premium of 10 cents a hundred for bulk milk. We waste less, too.

Cull cows closer. A poor cow doesn't make us money—she costs! That's why we cull any cow not giving 400 pounds of fat and 9,000 pounds of milk a year.

Increase salt in hog ration. We add 1 pound of salt to 100 pounds of ground feed, instead of the usual ½ pound per hundred. This makes hogs drink more water, and we believe makes them gain more cheaply. Our feed bill is down, too.



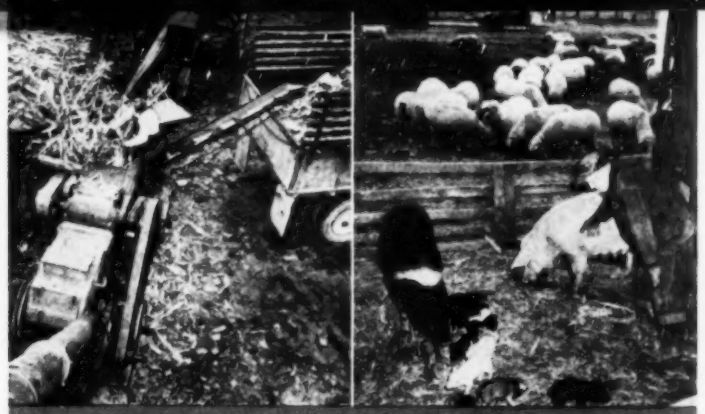
Ralph N. Agle and sons, Ohio

Do own fixing, building. We changed an old barn into a loafing shed and milking parlor, using home-grown oak lumber, sawed for $2.50 a thousand. We mixed our own cement, laid cement block, and did all the carpentry work.

Buy in bulk. We had 20 tons of bulk 10-10-10 fertilizer spread on 100 acres. In bulk, it cost no more spread than it would have if delivered to the farm in bags. We save 10 cents a bushel by buying oats by the railroad carload.

Install new water system. We drilled 2 wells so we no longer need to carry water to livestock on two places. This lets us handle more stock without extra labor.

Photographs: Joe Munroe, Reynolds, Photography, Inc.



Walter Inlow, Ohio

Spreads work load. I've set up a balanced livestock and crop program that helps even out my labor requirements throughout the year. With this program, I can get along without ever hiring any help.

Each year I draw a labor chart, showing how many hours of work are needed each month with the livestock I'll keep. Then, I fill in the low months and shave some labor requirements off the high months. Here's an example of how I do this: I have sows farrow; then about a month later, I have my ewes lamb. This way, I can give both the sows and ewes the attention they need without hiring a man. In the fall, while waiting for the corn to ripen, I cut some corn. Then, later in winter when I have plenty of time, I shred this corn and use the fodder for bedding.

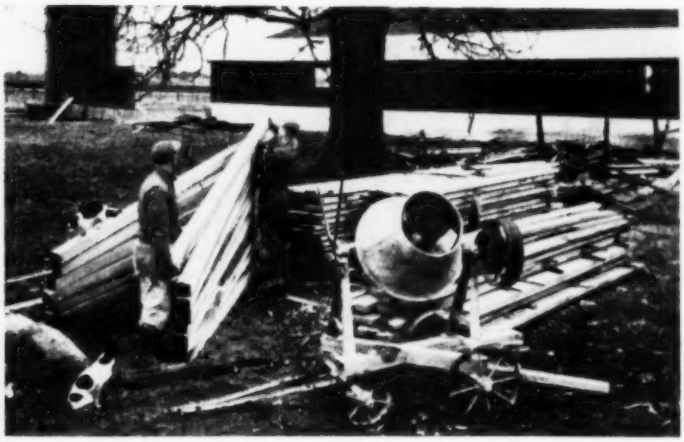
Keeps records. I keep complete records in books furnished by the Ohio Farm Accounting Association. This is the only way that I know of to tell exactly when and where the costs are too high.

Arnold V. Abbe, Minnesota

Buys used machinery. Since I began farming in 1947, I've bought used machinery such as tractors and plows. I can't afford to tie up capital in machinery for baling, chopping, and combining, so I hire these jobs done by custom operators.

Uses more fertilizer. I believe fertilizer is one expense I can't cut. It has helped me increase corn yields, and as yields go up, the cost of growing each bushel comes down. I *was* using 80 pounds of 3-19-9 per acre at planting. In 1954, I'll use 150 pounds of 4-24-12 on corn.

Feeds cows more cheaply. I feed only once a day instead of twice, and milk flow has held up. I feed 1 pound molasses to 6 pounds protein, for cheaper production.



Raymond Knutson, Iowa

Uses low-cost storage. In late 1953, I bought and had erected for only $1,900 a 3,500-bushel corncrib. This low-cost crib is only 7 feet thick at any point, preventing spoilage. It's shape makes it easier to fill and empty.

Goes to diesel power. Although my 3-plow diesel tractor cost me $400 more than a gas tractor, I think it will pay for itself in a couple of years. In 1953, my fuel bill for this tractor was about $150. The fuel bill for 2 smaller gas-powered tractors was $700. Diesel fuel costs less per gallon and less is burned in an average day's work.

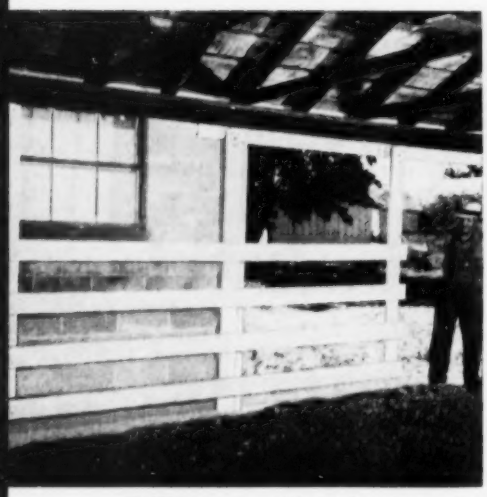
Doubles up on operations. Here's example in field work. I use a big tractor and pull as many implements as I can in one trip. I think it costs less to run over the ground once with a load than three times with only part of a load.

Rodney Young, Minnesota

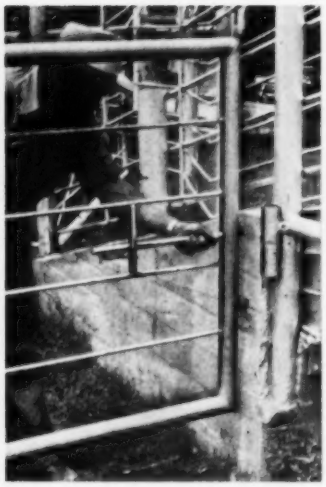
Uses buildings to capacity. In deciding to add hens to my livestock program, I found it would cost $5,000 to build a 600-hen laying house. To cut this cost, I built a laying house right into the barn, using the lower part of the haymow. Cost was only $1,800. Feed supply, electricity, and water were already in the barn.

Rearranges fields. My fields used to run east and west along an open ditch. Fields were irregular and very unhandy. Then, I tiled, closed the ditch, and rearranged the fields into bigger ones running north and south. Now, I get work done faster, and it costs less per acre to farm these fields.

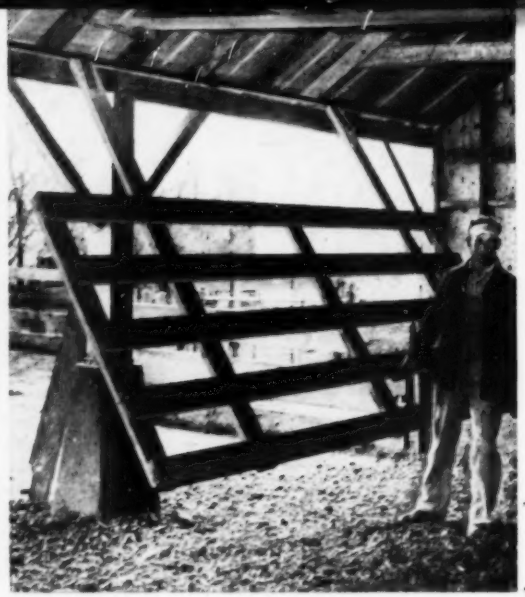
Trades machinery. My neighbors and I swap machinery that the other of us doesn't have. This way, we have the machinery we need for any job —with lower overhead for all of us.



Rolling gate used in loafing shed makes maximum use of space possible for Elmer Garber, Seward County, Nebraska. The gate rolls easily on the overhead tracks and can be adjusted for any size of opening



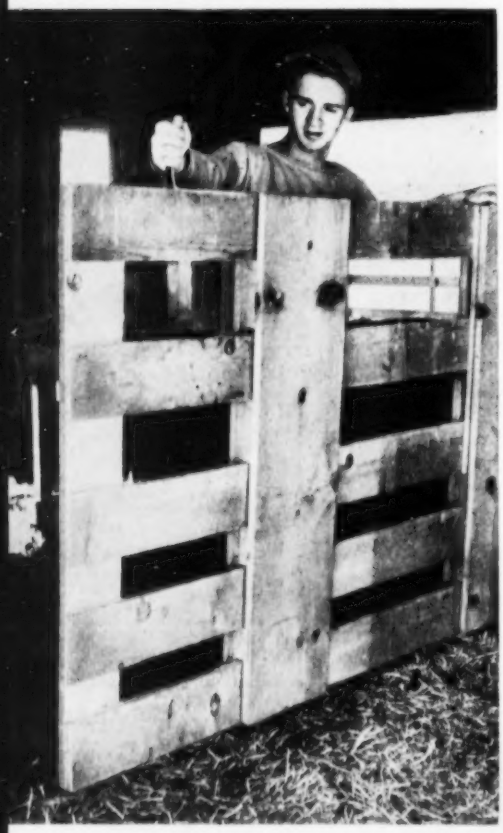
Spring latch on swinging gate automatically slips into place when gate is pushed shut. Joe Lewis, Pawnee County, Kansas, uses such latches on feedlot gates



Overhead gate makes it possible for Myron Hanson, Benton County, Iowa, to have either an open or closed shed. The gate is hung from pieces of pipe fitted between shed rafters. When shed is closed off, the gate still can be slid aside to form small opening

Gates by the dozen

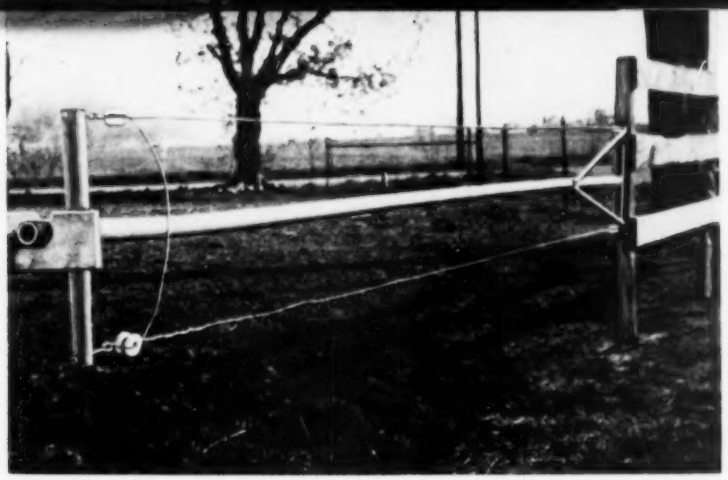
Livestock chores often take a back seat to field work during busy summer months. The right gate in the right place speeds these chores—makes better use of lots, barns, and pastures



Sliding bars on this gate make it possible to telescope gate to fit different openings. Wilbur Rotter, Lee County, Iowa, shows how gate is operated. Gate is strengthened if some of the bars run through both uprights

Remote-control gate can be opened and closed without getting out of car. Carl P. Slane, Brimfield, Illinois, built gate so pulling a chain from either side of gate opens it. After driving through, pulling other chain closes gate. Livestock cannot open the gate

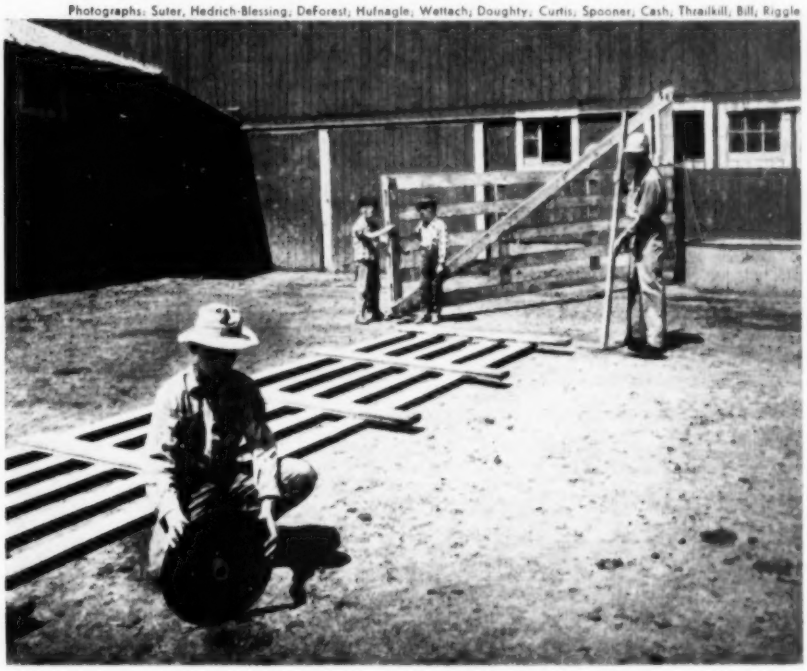
Handy gate fastener is used on gates on the United States Range Station, Miles City, Montana. Iron handle is fastened to fence post. Metal loop fits around end gatepost



This lightweight, inexpensive gate can be easily installed anywhere in a line of electric fence. Ray Weinheimer, Madison County, Illinois, welded together old pipes for a frame. Good bracing and hinges added rigidity to gate — prevented sagging. Wire used on the top and bottom of gate is connected to the electric fencing unit

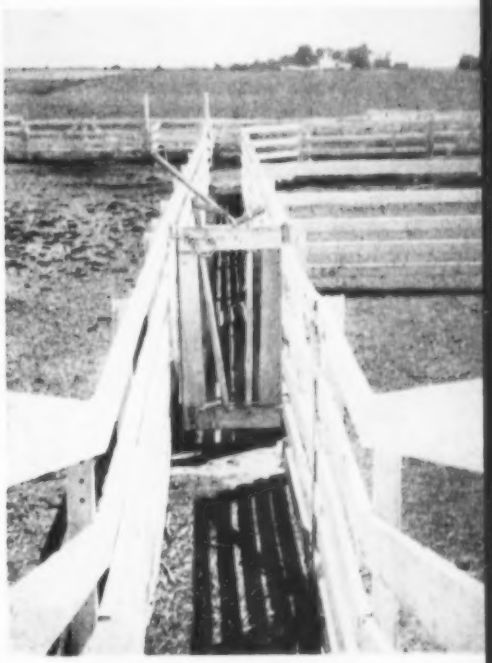
Photographs: Suter, Hedrich-Blessing; DeForest; Hufnagle; Wettach; Doughty; Curtis; Spooner; Cash; Thrailkill; Bill; Riggle

Movable gates inside hay shed make it possible for Carl Rolfsmeier, Seward County, Nebraska, to use it for several purposes — hay storage, loafing shed, or pen area. Upper gate folds against wall when not in use. Lower gate can be used either as a partition or hay feeder



Large paved lot can be divided into smaller lots with this quick-to-build fence. To divide the lot, John Davis, Olivet, Michigan, slips a pipe post into holes left in concrete.

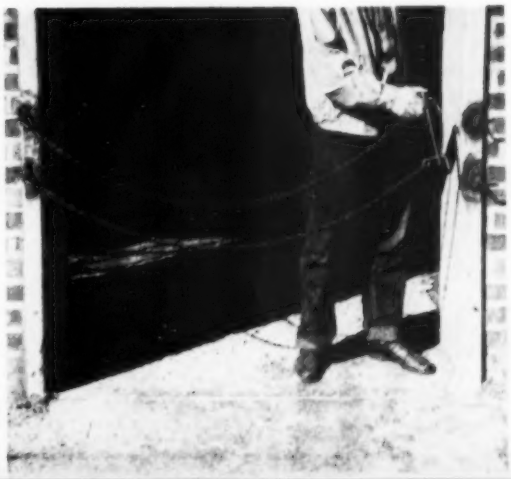
Fence panels then are wired to the posts. Old disc blade, with short pipe welded to one side, covers hole. Gate is attached to the barn.



Handy corral divides cattle and hog lots on the Weaver Witner farm, Linn County, Iowa, has other uses, too.

Each lot has gate opening into alley which directs livestock into loading chute. Dehorning-breeding stanchion can be swung to one side.

Wheel in gate makes gate easy to open and close for Frank Voller, of Lancaster County, Nebraska. Wheel takes weight off the hinges, preventing sag in gate. Metal frame inset allows gate to ride close to ground. Braces hold frame firmly in place



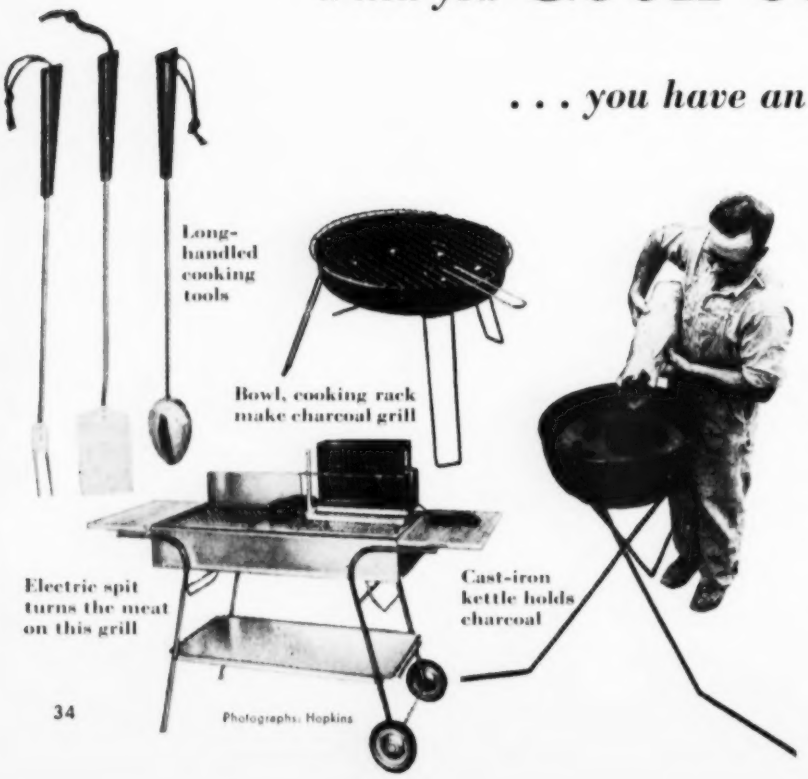
◀ **Chain gate** can be used to fence off part of barn without cutting off ventilation.

Gate is especially handy around a dairy barn. Eyes are welded onto one side of door, hooks on other. Same gate will work in wooden door.

The Charles Novotnys, of Pratt County, Kansas, enjoy a luxury any farm family can afford—fixing supper in the cool evening breeze

When you Cook outdoors

. . . you have an air-conditioned kitchen



Photographs: Hopkins

By Jan Maple

If you smolder inside cooking supper on these sultry summer days, you're missing one of your biggest assets in farm living.

Outdoor eating was never more fun. An array of grills and gadgets is yours to choose from in most stores. Or you can rig up your own equipment, as these farm families have done.

The Novotnys (above) built their own outdoor kitchen-living room with comfortable benches and table. Mr. Novotny even made the extra-long cooking forks.

The Lee Lunts, of Pratt County, Kansas, made their charcoal grill by mounting an old iron kettle on legs (left). **END**

Paint coordinated LaRae's furniture

Lynn, LaRae's busy 14-year-old sister, takes advantage of the cozy reading area made by a convenient magazine rack and chair behind LaRae's desk

◀ The corner built-in area provides welcome drawer and shelf space for clothes, books, and knickknacks without taking up too much valuable room space

Bed was remodeled by replacing old posts with tall posters and a canopy. Plaid ceiling repeats plaid of rug as curtains carry out the design of molding ▶

Photographs: Hopkins

Built-in left Bonnie room for guest

Rough planks and brick make a good-looking bookcase in front of the storage wall. The colorful modern prints were cut from a magazine and matted in white

Bonnie has an extra bed placed at angle with her own. She made the curtains of homespun and embroidered them in green and red as a 4-H project

Before school starts . . . make your bedroom

A room to be proud of

By Claire Miller

LaRae Wilhau of Grundy Center and Bonnie Friedley of Waterloo don't know each other—but they have much in common. Both of these attractive, 17-year-old Iowa farm girls got wonderful results when they decorated their bedrooms. Their ideas came from browsing through magazines—with their *own* ingenuity and imagination thrown in.

If you're thinking about decorating your bedroom, start a scrapbook of idea clippings, take measurements of floor and windows, and plan on paper just what you want to do. Get busy right now, and you'll really have something to show for your summer vacation.

Easy-on-the-cook . . . Frosty-cool pies for sultry days

An extra-special collection of refrigerator pies—good to look at and refreshing to eat. Delicious proof that fancy desserts can be "easy as pie" to make. All are make-aheads that keep the cook's temperature down. They wait in the refrigerator till dessert time

By Elizabeth Page

Cherry-Cheese Tarts
(Makes eight 4¼-inch tarts)

- 2 No. 2 cans tart cherries, undrained
- ¼ cup cornstarch
- 1 cup sugar
- ½ teaspoon almond extract
- 12 drops red food coloring
- 2 tablespoons milk
- 2 3-ounce packages cream cheese
- 8 4¼-inch baked tart shells

Drain cherries; add water to cherry liquid to make 1 cup. Combine cornstarch and sugar; stir in liquid slowly. Cook, stirring constantly, until thickened. Add almond extract and food coloring. Cool to lukewarm. Add milk to cream cheese; beat until smooth. Spread in bottoms of baked tart shells. Top with cherries. Pour cornstarch mixture over cherries. Chill. Mix additional cream cheese with a little milk. Force through pastry tube to make rosettes on each tart.

Lime Surprise Pie (Makes 6 servings)

- 2 eggs
- ½ cup sugar
- Few drops green food coloring
- 1 cup light cream
- ⅓ cup lime juice
- 1 tablespoon grated lime peel
- 1½ cups graham-cracker crumbs
- ¼ cup sugar
- ⅓ cup butter, melted
- 1 pint vanilla ice cream

Beat eggs until thick and lemon-colored. Gradually add sugar and continue beating until mixture is light and fluffy. Add green coloring, cream, lime juice, and peel; mix well. Pour into freezing tray and freeze firm. Break in chunks and turn into chilled bowl; beat smooth with electric or rotary beater. Return to cold tray and partially freeze. Combine graham-cracker crumbs, sugar, and butter. Pat into 9-inch piepan. Whip vanilla ice cream until smooth and spread in crumb crust; top with frozen lime mixture. Freeze firm. Garnish with fresh lime slices and cut in wedges to serve.

Coffee Ice-cream Pie (Makes 6 servings)

- 2 1-ounce squares unsweetened chocolate
- 2 tablespoons butter
- 2 tablespoons hot milk
- ⅔ cup sifted confectioners' sugar
- 1½ cups (4-ounce can) shredded coconut
- 1 quart vanilla ice cream
- 2 teaspoons instant coffee
- ¼ cup chopped pecans

Melt chocolate and butter over hot water; blend. Stir milk into confectioners' sugar; add to chocolate mixture. Mix well. Stir in coconut. Press onto bottom and sides of buttered 9-inch pieplate. Chill in refrigerator. Stir ice cream to soften; thoroughly mix in instant coffee and chopped pecans. Spread in pie shell, swirling top with a spoon. Top with pecan halves and store in freezing compartment until firm.

Peach Parfait Pie (Makes 6 servings)

- 1 package strawberry gelatin
- 1¼ cups hot water
- 1 pint vanilla ice cream
- 1 cup drained, sweetened, sliced peaches or
- 1 cup frozen, sweetened peaches, thawed and drained
- 1 baked 9-inch pastry shell

Dissolve gelatin in hot water in 2-quart saucepan. Add ice cream by large spoonfuls, stirring until melted. Then chill until thickened but not set (usually 15 to 20 minutes). Fold in well-drained peach slices. Turn into 9-inch baked pastry shell. Chill until firm (20 to 25 minutes). Garnish with a circle of whipped cream.

Pineapple Chiffon Pie
(Makes 5 to 6 servings)

- 1½ cups vanilla-wafer crumbs
- ½ cup melted butter
- 1 tablespoon unflavored gelatin
- ¼ cup cold water
- 3 eggs, separated
- ¾ cup sugar
- ½ teaspoon salt
- 1 teaspoon grated lemon peel
- 1 tablespoon lemon juice
- 9-ounce (buffet-size) can crushed pineapple, undrained

Mix crumbs, butter. Press around sides and bottom of greased 8-inch piepan; chill. Soften gelatin in water. Mix slightly beaten egg yolks, ½ cup sugar, salt, lemon peel, juice, and pineapple in top of double boiler. Cook over hot water until thick; add softened gelatin; stir until dissolved. Cool until mixture begins to thicken. Add remaining ¼ cup sugar to stiff-beaten egg whites; fold into gelatin mixture. Pour into crust; chill.

Color photograph: Snook, Photography, Inc.

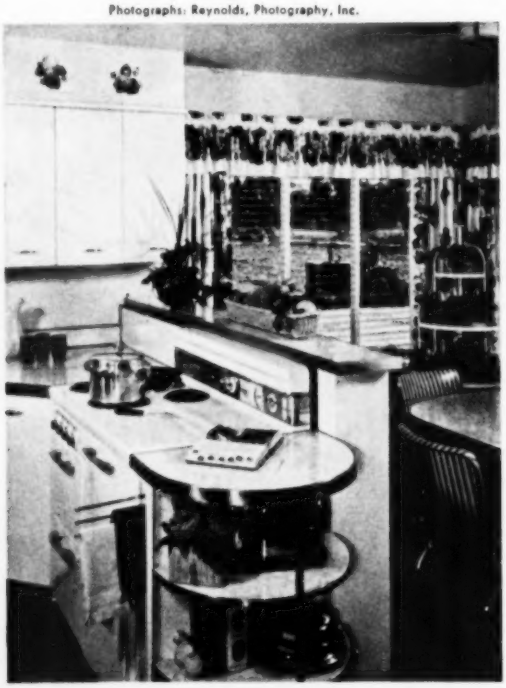
Crisp as a jonquil— all summer long!

Windows on two sides let the Western plains breezes through in morning and evening. Chintz tier curtains can be closed against midday sun. Blue-and-green color combination is cool as a spring rain on new pasture! Covering on counter tops is coved up backsplash—easy to keep clean. The dishwasher ends hot dishwashing at the Wayne Hendrickson farm home in Buffalo County, Nebraska

Photographs: Reynolds, Photography, Inc.

Refreshing as a chilled slab of watermelon!

Gleaming white and pastel green give a quiet, spacious feeling to the kitchen in the home of the Harvey Starkeys who farm in Buffalo County, Nebraska. Venetian blinds bar the hot sunlight in late afternoon. Cool-looking, blue-violet nosegays on the chintz draperies are repeated above cabinets by cutting them from fabric, pasting them to the wall



Range handy to the table is doubly appreciated on busy, hot days. In the ceiling over the range is a ventilating fan to draw off cooking heat and moisture—important aid to comfort and easy cleaning

Farm kitchens–

cool and collected

By Maurine Harris

If only a farm kitchen were like a summer resort! Instead of hot blasts from the stove at dinnertime—pine-scented mountain breezes. No scalding steam from the canning kettle—but misty ocean spray to caress your cheek!

Too bad—imagination alone can't change the fact that kitchens can get mighty disagreeable in summer. But imagination, along with *action*, can do a lot to improve the situation. Two Nebraska farm women—Mrs. Harvey Starkey and Mrs. Wayne Hendrickson—have done wonders. Both their kitchens have a cool, inviting look that revives a summer-weary spirit.

First to contend with are the sun and hot outdoor air. Awnings outside the windows, the right kinds of blinds and curtains inside, can help block merciless rays. An electric fan or two, strategically placed, can make a world of difference in the temperature and humidity. (*For ventilating fans, see page 22.*)

Then, simple as it may seem, the *colors* in a room can almost create coolness on a torrid summer day. Large areas of white and tones of blue and green have a way of giving "mental coolness." Maybe, by just changing the color of your curtains, or adding an aqua-blue strip of wallpaper above your cabinets, you can get this effect in your own kitchen.

A kitchen designed for *short-cut* cleaning can give a huge lift to tiring summer routine. Both the farm kitchens shown here are tops on this score.

Finally, there's nothing that can keep your temperature so well subdued as having your kitchen organized and smooth-running. If the can opener is in a different spot every time you need it, it can make you plenty "hot under the collar."

Good organization—with a place planned for storing each item, and a timesaving place to do every job—can be achieved in either a big or small kitchen. The Hendricksons' kitchen is tiny and trim—but completely convenient for cooking for this young farm family of five. The Starkeys' kitchen is a favorite room in the home they've built "for retiring on the farm." Although there are usually just the two of them, a kitchen with lots of space is what they most enjoy. In each of these kitchens, a farm wife can keep "cool-headed"—even on a sultry day.

A mixer always ready, yet out of the way between times is something Mrs. Starkey enjoys. A weighted lift like this can be put in home-built cabinet, too

Revolving shelves in corners give convenient storage with no struggling to reach things. One by range is handy for cooking tools and staples

◀ **Special china** and glassware have a place of their own—a dust-free cabinet with sliding glass doors built in back of room divider. A separate cabinet for seldom-used items keeps work area uncluttered

Quick freezer meals are popular with the Starkeys—lessen cooking time. The freezer's *in* the kitchen—not down the hard-to-climb basement steps!

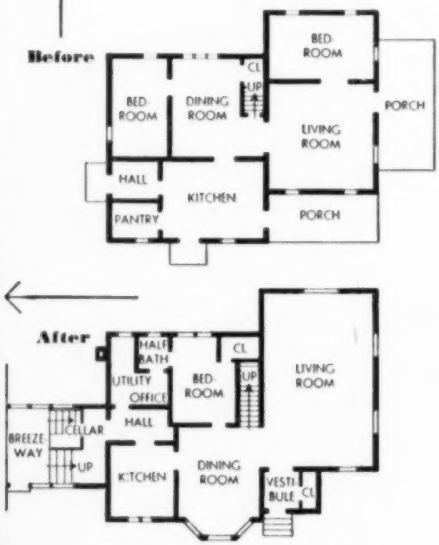
Sink in nearby laundry room is used for washing vegetables, fixing flowers—kitchen stays clean. ▶

Living room is large, with windows on three sides. Books and magazines at end make a pleasant reading area

Kitchen is now convenient, U-shaped. All supplies, utensils are at fingertips, and it's only a few steps to any part of the working area

Photographs: Pease, Author

Before remodeling, callers had no choice but to go to one of rear doors. Parking area was here, too



After remodeling, wide windows, siding help outside "look." Callers come to "front" door from parking area conveniently placed

The Spies' house was built in 1895, and now it's

Good for another 59 years

By C. H. Van Vlack
Iowa State College

When the Paul Spies family moved to their Story County, Iowa, farm, they found a house built in about 1895 (upper right photograph). As the floor plan shows, it had much to be desired in convenience and good livability. On the other hand, the house was sound and stood straight with true lines, it had a good foundation extending below frostline, and was built on the farm's *best* building site. These factors were instrumental in the Spies' decision to remodel rather than build new.

The new house has a modern kitchen with views toward entrances and farm drive, a front entrance which welcomes guests to the living room through a vestibule, a wash-up area and office near the rear door, and automatic heat and water systems. The breezeway will connect to a new garage.

MOLASSES

- **it substitutes for grain**
- **it peps up poor roughage**
- **it costs less than corn**
- **it is available near you**

Here's how molasses cuts feed costs

For an entire feeding period, a steer might receive 40 bushels of corn at a total cost of $60. Substituting molasses for $\frac{1}{3}$ of the corn would mean 14 bushels replaced. Since $6\frac{1}{2}$ gallons of molasses is equal to 1 bushel of corn, 91 gallons would be fed at 17 cents a gallon. Subtracting the costs below for the molasses-corn ration from that of all corn shows a saving of $5.53.

26 bushels of corn	**$39.00**
91 gallons of molasses	**$15.47**
Total	**$54.47**

Feed costs are based on these prices:

Corn $1.50
Molasses . . $ .17

Advantage of feeding molasses:

$5.53
per head

By Dick Hanson

Corn has a "new" competitor in many feedlots these days. A growing number of farmers are substituting molasses for some of the corn or other energy feed in livestock rations.

Actually, of course, molasses is not a new livestock feed. It's been used in small quantities for years. But, in the *last* few years, the use of molasses as livestock feed has really boomed.

In 1953, approximately *334 million gallons of molasses went into feedlots and dairy barns.* That's a jump of *over 100 million gallons since 1950.* And the limit is not yet in sight.

Why all this sudden interest and use of molasses as livestock feed? Here are the main reasons:

1. Molasses can be substituted for up to $\frac{1}{3}$ of a more expensive energy feed, such as corn, in livestock rations. *Six-and-one-half gallons of molasses have the same feed value as a bushel of yellow corn.* So, when 334 million gallons were fed last year, it meant that about 50 million bushels of corn, or other energy feed, was replaced by molasses. *When you can buy $6\frac{1}{2}$ gallons of molasses for less than a bushel of corn, then it pays to substitute molasses.*

2. Molasses makes roughage—or any other feed for that matter—more palatable to livestock. Cattle will clean up some mighty sorry-looking roughage if a little molasses is poured over it. This fact alone may make molasses a good buy even if it should cost more than corn.

3. Molasses can be used as a binding agent in mixed feeds. And, it practically eliminates dustiness in feeds.

Those are the three main reasons why more and more farmers are using molasses in livestock rations. Price is probably the biggest factor, but better consumption of low-quality roughage runs a close second.

Now, what about this price advantage for molasses? Is it "here to stay" or just a temporary situation? Of course, no one can predict the future price of molasses, but here's what has happened.

On a feed-value basis, *molasses has been less expensive than corn in each of the last 15 years except 1943 and 1951.* A comparison of the average New York wholesale prices of corn and molasses in 1952 shows that *molasses was 69.8 cents cheaper* on an equivalent feeding-value basis than a bushel of No. 3 yellow corn. During the first three months of 1953, *molasses was $1.09 cheaper per bushel of corn equivalent.*

What is feed molasses? There are four kinds—cane (blackstrap), beet, citrus, and hydrol. Cane accounts for 80 to 90 percent of the molasses used in livestock feeding. Hydrol, or corn molasses, is a byproduct from the manufacture of refined corn sugar.

Cane molasses contains from 48 to 56 percent sugar or carbohydrates. It should be regarded principally as a source of *highly digestible feed energy and trace minerals.* Cane molasses should be used in rations which are well balanced in other nutrients.

Because molasses stimulates appetite, an increase in the total ration—especially in the amount of protein—should be provided. Cane molasses lacks protein. In fact, it is usually considered as having none.

Much of the molasses being fed these days is in liquid form, although dried molasses products are available. In the dried molasses products, several different kinds of carrying agents are used—corn-oil cake meal, bagasse pith, and different kinds of screenings.

The dry molasses products are more expensive than liquid molasses but are somewhat easier to handle and mix. Although the supply is limited, ammoniated molasses is also available now. This product has a high nitrogen content which helps rumen bacteria build complete protein. Molasses containing urea, which also increases nitrogen protein content, is on the market, too.

How much molasses can you feed? At the present time, there seems to be a good deal of disagreement on this point. A good, general recommendation however, is that when cane [*Turn to page 66*

Sows farrow in the woods during month of August. Trees provide shelter for sows and litters. No farrowing equipment is needed, and the death loss is very low. Sanitation is no problem

"Why I like a one-litter system"

If you're short on equipment, feed, and labor, this program may be what you're looking for

By Hans Dickinson

You can find all kinds of hog-raising systems these days. Some of you follow a two-litters-a-year system, others three litters, and lately the multiple-farrowing idea has caught on. Bayard Scott, Vinton, Iowa, doesn't follow any of the systems mentioned above. It isn't that these systems aren't good, Bayard said—it's just that they don't fit his particular farming program.

Bayard has sows farrow *once* a year—in August—and pigs from these sows are kept on the farm until the following summer when prices are usually highest, especially for heavy hogs.

This system is quite a bit different from what we usually think goes to make a successful hog-raising program. The main idea usually is to push hogs to market just as fast as possible.

"Pushing hogs to market in 5 or 6 months is fine if you have the labor, equipment, and feed to do it with," said Bayard, "but I don't have enough of any of these items. So, I decided about 4 years ago to try raising only one bunch of hogs a year, and substitute as much roughage as possible for corn. I also worked out a plan where the pigs practically take care of themselves, and I don't need much equipment.

"I knew it would take quite a bit longer to get hogs to market, but I figured the saving in money and labor might make it pay," Bayard added. So, for the past 4 years, this young farmer has been farrowing his sows in August and selling the pigs one year later.

Here's how the system works: Sows are bred in April

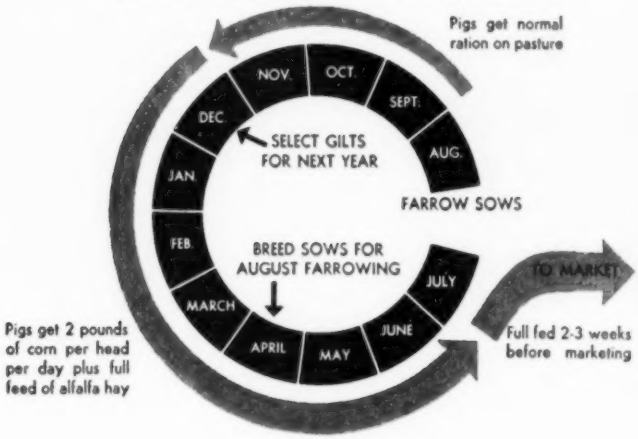
After sows farrow. Bayard makes one trip a day through the pasture with his 4-wheel-drive truck. Corn and supplement are thrown on ground for sows, pigs

Care of pigs is easy. Bayard castrates and clips needle teeth out in the woods when the pigs are only a few days old

At marketing time, pigs are sorted carefully according to weight. The system produces heavier, but leaner hogs

Photographs: Fletcher

Bayard Scott's year-round system

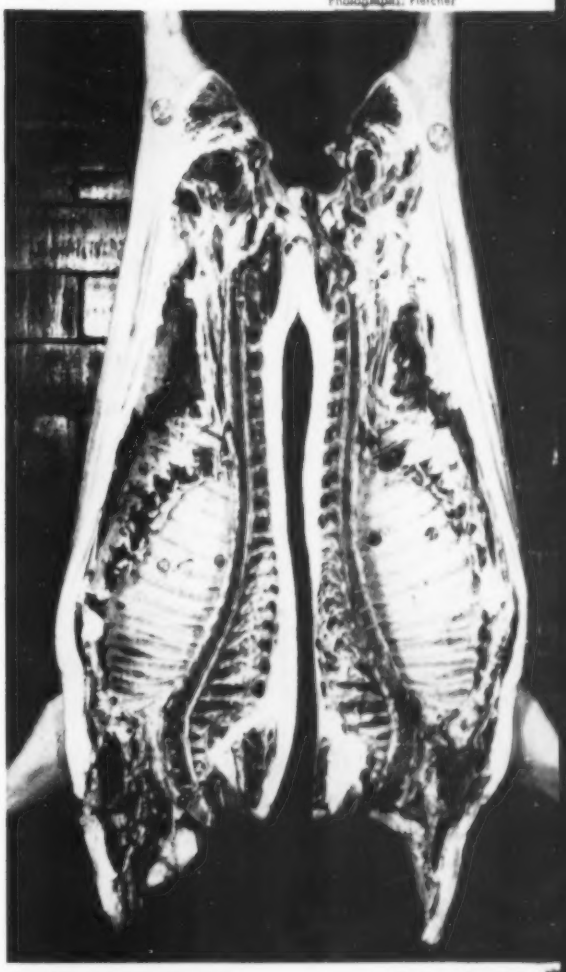


for August farrowing. At farrowing time, the sows run in a 100-acre, steeply rolling, wooded pasture. The sows farrow right out in the woods without shelter other than the trees and ravines. No farrowing equipment is needed, and death loss is amazingly low.

Bayard makes one trip through the pasture each day during farrowing. He spots where sows are about to farrow and throws out a little corn and supplement. He does the same for sows that have already farrowed. Water is provided by several small creeks running through the pasture.

"In my part of the country, August is the ideal month for farrowing out in the open," Bayard said. "It seldom, if ever, gets cold or damp. And letting sows run loose over the pasture surely cuts down on disease problems. The sows and pigs aren't crowded together and are on clean ground. When the litters are a week or so old, the sows begin to bunch up so feeding can be done at only one or two places in the pasture."

Soon after farrowing, sows and | *Turn to page 74*

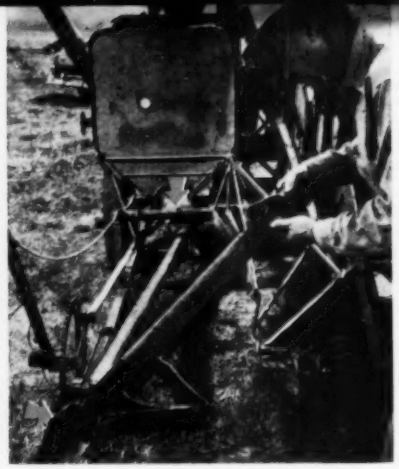


The result: a good meat-type carcass

Here's part of the report from the packer who bought these hogs: ▶ "I feel that Bayard succeeded in holding down the fat content on the 260-pound hogs. Their carcasses, I would say, were superior in this respect to the average for hogs of this weight. I would think, however, that the value of this system should rest on lowered production costs, not production of superior carcasses"

Check cutting, feeding mechanism for wear or damage. An out-of-square feeder frame causes edge wear on canvas. Reel bats, cutting parts are easily replaced. Don't buy this combine if feeder platform or the frame is sprung

Examine straw racks, adjustable chaffer, and sieve for signs of long use. They are broken-spot welds, bent parts, rotting or worn wood, cracked fittings. Pass on to *next* combine if you find collapsed straw racks. Check shaft bearings



Inspect main drive for damage, oil leaks, looseness. Observe gear condition, inspect joint knuckles for wear. Don't buy combine with cracked main-drive gearbox or worn gears

How to

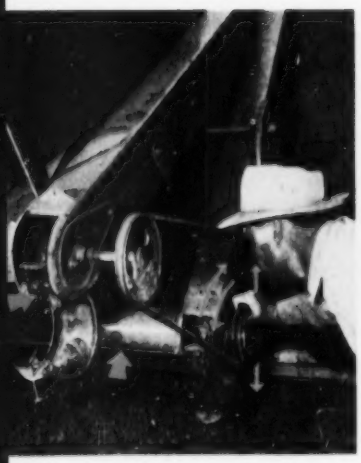
Buy a used combine

Here are some tips to use in buying a used combine. If a point is a serious fault, it's marked ✔

By Dale O. Hull
Iowa State College

Determine condition of cylinder and concaves by opening housing, turning cylinder by hand. Look for evidence of hard object passing through the machine. Test looseness of bearing by prying up on shaft end (right photograph). Operate quick-change speed adjustment with the combine running. If cylinder is out of balance, start looking at other combines to buy

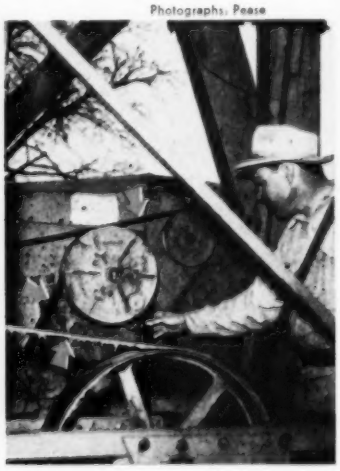
Photographs: Pease



Look at augers, housings for wear, bends, rust spots. Augers must turn freely. If housing, grain tank are rusted through, forget combine

Note missing, damaged, or worn parts on windrow pickup attachment or cutter bar. These are easily and cheaply replaced; should not be determining factor on purchase of unit

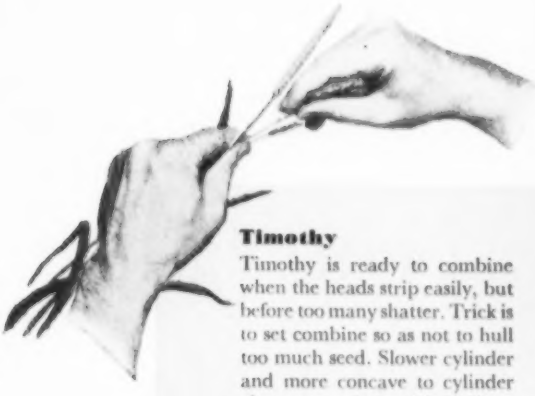
Test engine compression by turning over with hand crank. Look for block cracks, sludge in air cleaner—signs of a careless owner. If found, drop combine



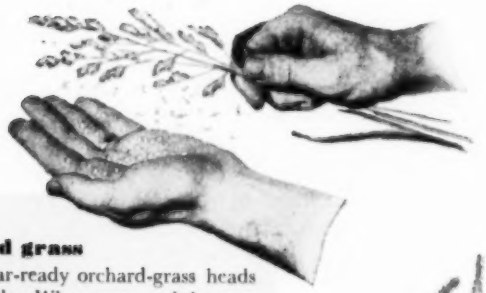
Examine belts, chains, sprockets for wear. Newer combines may have roller chains. Cost of new belts, chains is small. Roller-type chains cost more

How to get the most seed

Catch the seed crop at the right time and watch your combine, say the experts



Timothy
Timothy is ready to combine when the heads strip easily, but before too many shatter. Trick is to set combine so as not to hull too much seed. Slower cylinder and more concave to cylinder clearance reduces this hulling.



Orchard grass
Strike near-ready orchard-grass heads against palm. When some seed shatters, orchard grass should be combined soon. Problem is that seed shatters before dry enough to store. Freshly combined seed must therefore be spread on floor, or artificially dried, before sacking up.

Red clover
Around 30 seeds per head make red clover worth harvesting. Seed is hard to get by direct combining—better to mow and let dry. For pickup, make small windrows. Lacking pickup, fork into combine.

Sweet clover
Sweet clover can be direct-combined when almost all the seed pods are brown or black. Shattering is heavy. Much more seed can be had by windrowing when about ⅔ of seed pods are ripe, and combining after 4 days.

By John Howard

Anyone who has ever pinched clover or stripped a grass head—and found seed—knows there's a trick to getting that seed. What are some of the tricks used by farmers who combine seed every year?

There's a *best time* to cut each of these common legumes and grasses for seed—see the accompanying drawings.

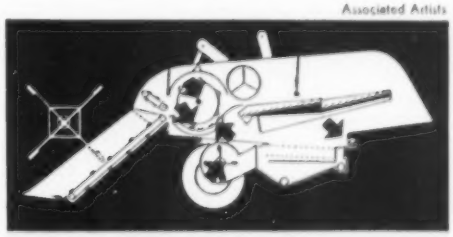
Combine adjustment is crucial. For a big job, you can buy special screens, but most people cut only a few acres. The five easiest and most important places to adjust the combine are shown below. These adjustments take less than an hour—but *two* or *three* times as much seed will be yours in return.

Lespedeza
Combine when leaves of Korean or Climax have turned brown. Kobe and common will still be partly green. Lespedeza takes slow cylinder speed. Cylinder-to-concave distance about ⅛ inch, and low wind.

Drawings: Reece

Bromegrass
Combine bromegrass when stem dries 2 to 4 inches below seed head. Cut high to reduce volume of green material going through. Some take fan blades completely off to reduce wind. Bromegrass has a 10-day combining period.

Associated Artists



Places to check adjustments when combining seed: cylinder speed, cylinder to concave clearance, number of concave bars, wind volume, and the openings of the chaffers and sieves

Year in and year out,

I can't afford <u>not</u> to feed beef

That's how this farmer sizes up his cattle-feeding program. To him, a price margin isn't always necessary

By Hal Routhe

The in-and-outer in the cattle-feeding business depends almost entirely on a price margin for profit. But a price margin isn't absolutely necessary for a feeder who buys cattle *to fit his cropping system and feed supply*. A good feeder who buys the *kind* and *number* of cattle that best fit his farm can make money *without a price margin*.

Here is how one Minnesota cattle feeder, a member of the Southwest Minnesota Farm Management Association, attempts to achieve a *balanced* feeding program for *long-run* profits.

Harold Wass, Worthington, Minnesota, whose feeding setup is pictured on these pages, farms 320 acres. His cropping system consists of 225 acres in a 5-year rotation of crops—corn, corn, small grain, alfalfa-brome hay, alfalfa-brome pasture.

The balance of Harold's 85 acres is in a sliding rotation. With better than 90 acres of alfalfa-brome hay and pasture to use, Harold regularly feeds 200 head of cattle, usually calves. He buys additional corn as needed to feed the cattle and to fatten the 40 litters of pigs he raises every year.

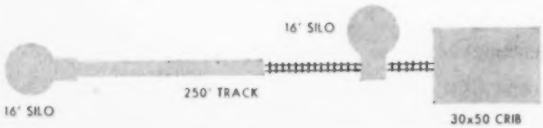
Harold believes feeding cattle helps him operate a balanced farming program. Naturally, he feeds cattle for profit. But there's another reason, too. Cattle can use large amounts of roughage. And roughage is one feed Harold has plenty of as a result of maintaining a good soil-building program on his farm. Without cattle, he'd have a less profitable market for his roughage.

To see how Harold's cattle fit the farming program, it's necessary to follow it through one complete feeding season.

The feeding operation is geared to 200 mixed calves of Choice quality purchased about November 1, but the program has varied occasionally. For instance, in 1952-53, Harold fed 104 calves and 90 head of yearlings. The calves were started on wild hay and oats. [*Turn to page 54*

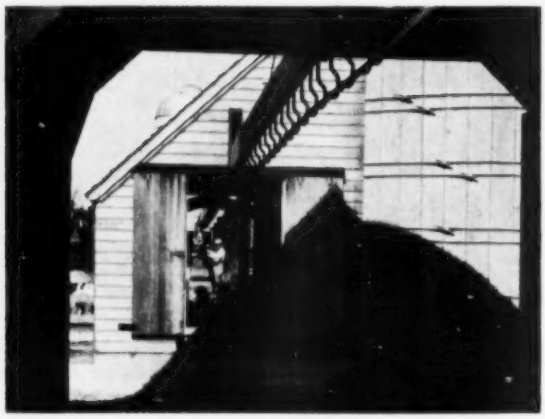
Labor costs are low as a result of mechanized feeding shown at the right →

Carrier track runs next to the silo for easy filling. Feed cart can be lowered or raised with chain lift



Drawing at left shows layout of feeding system. Two silos are set directly in line with the alleyway of the 7,600 bushel combination corncrib and granary. Overhead track above bunks connects silos and crib

Photographs: Hufnagle



Shed built around silo is used for storing supplement. With present feeding setup, Harold can handle 200 head of cattle with the same amount of labor required for 100 head with previous feeding system. Feeding 200 head takes one hour a day

Farm management records are important part of Harold's business. Hal Routhe, fieldman for Southwest Minnesota Farm Management Association, helps out

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1. Creamy-good vanilla filling and sliced bananas! What a heavenly banana cream pie.
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Vanilla
Chocolate
Butterscotch
Lemon
Coconut Cream

JELL-O IS A REGISTERED TRADE-MARK OF GENERAL FOODS CORP.

Chilaly Sandwich Filling
(Makes about ¾ cup)

1 3-ounce package cream cheese
1 hard-cooked egg, chopped
1 tablespoon salad dressing or mayonnaise
1 tablespoon chili sauce
1 tablespoon pickle relish
1 teaspoon grated onion

Soften cheese at room temperature; add remaining ingredients and blend thoroughly.

—*Mrs. A. D. Trochinski, Minnesota*

Pimiento-Cheese Sandwich Filling
(Makes about 2 cups)

3 hard-cooked eggs, chopped
½ pound grated process American cheese
3 tablespoons chopped pimiento
½ cup salad dressing or mayonnaise

Combine eggs, cheese, and pimiento. Moisten mixture with salad dressing or mayonnaise.

—*Mrs. C. W. Vanderlinden, Iowa*

Cheese-Bologna Sandwich Filling
(Makes about 3 cups)

½ pound process American cheese
½ pound Bologna
1 small onion
4 medium sweet pickles
1 teaspoon celery seed
½ teaspoon salt
⅛ teaspoon pepper
¾ cup salad dressing or mayonnaise

Grind together cheese, Bologna, onion, and sweet pickles. Add celery seed, salt, pepper, and salad dressing or mayonnaise; blend well.

—*Mrs. Ellen Edstrom, Minnesota*

Chilled milk drinks

Youngsters and adults alike give their heartiest approval to these cool refreshers made with milk

Frosty Banana Drink
(Makes 6 to 8 servings)

3 cups ripe banana slices (about 4 bananas)
2 tablespoons sugar
½ teaspoon vanilla
1 pint vanilla ice cream
2 cups cold milk

Beat bananas with electric mixer or rotary beater until smooth; add sugar and vanilla. Beat ice cream into banana mixture. Add milk gradually and blend. Pour into chilled glasses and serve at once.

—*Mrs. Earl Brown, Ohio*

Chocolate Mint Frost
(Makes 6 to 8 servings)

2 squares unsweetened chocolate
1 cup water
½ cup sugar
1 teaspoon vanilla
½ teaspoon peppermint flavoring
¼ teaspoon salt
4 cups cold milk
1 pint vanilla ice cream

Combine chocolate, water, and sugar; cook over low heat until thickened, stirring constantly (about 5 minutes). Chill. Add vanilla, peppermint flavoring, salt, milk, and ice cream. Beat with electric mixer or rotary beater until frothy. Pour into chilled glasses and serve immediately. If desired, top with additional ice cream.

—*Mrs. Curtis Oswalt, Sr., Indiana*

Ice-cream Float (Makes 4 to 6 servings)

4 teaspoons fruit-flavored summer-drink powder (orange, lime, cherry, or strawberry)
½ cup sugar
4 cups milk
½ pint vanilla ice cream

Combine drink powder and sugar; add milk and stir until well blended. Pour into glasses and top with scoops of vanilla ice cream.

—*Mrs. Hulda Schrag, Kansas*

Summer Eggnog (Makes 4 servings)

2 egg whites
¼ cup sugar
Dash salt
2 egg yolks
1 teaspoon vanilla
2 cups cold milk

Beat egg whites until foamy. Gradually add sugar and salt and beat until they form soft peaks. Beat egg yolks with vanilla until well blended. Fold egg yolks into egg-white mixture and add cold milk gradually. Serve immediately.

—*Mrs. Lloyd Schmitz, New York*

Maple Milkshake (Makes 6 to 8 servings)

4 cups cold milk
¾ cup maple syrup
1 pint vanilla ice cream

Mix milk and maple syrup thoroughly. Pour into chilled glasses. Top with scoops of vanilla ice cream.

Sandwiches

These substantial sandwiches will be popular standbys for the picnic basket and Sunday-night suppers

Ham-and-Egg Sandwiches
(Makes 8 servings)

2 cups ground cooked ham
½ cup chopped onion
¾ cup chopped sweet pickle
2 cups chopped celery
4 hard-cooked eggs, chopped
½ teaspoon salt
⅛ teaspoon pepper
¼ teaspoon dry mustard
⅔ cup salad dressing or mayonnaise
8 large round buns

Combine all ingredients except buns; mix well. Slice buns crosswise and fill with spread. Wrap each in aluminum foil. Heat in a 300° (slow) oven for 30 minutes.

—*Mrs. L. W. Foubert, Iowa*

Liver-sausage Sandwich Filling
(Makes about 1¼ cups)

¼ pound (½ cup) liver sausage
3 hard-cooked eggs, chopped
¼ cup minced parsley
1 tablespoon chopped green pepper
½ teaspoon salt
1 teaspoon prepared mustard
3 tablespoons salad dressing or mayonnaise
Lettuce

Combine all ingredients except lettuce. Spread on rye bread, top with lettuce leaf and another bread slice.

—*Miss Diana Junker, Nebraska*

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Deepfreeze home freezers available in 8 models, capacities from 8 to 24 cu. ft. Imperial Model C-146 (13.59 cu. ft.) illustrated.

Save money, live better with a Deepfreeze Home Freezer

Cornell University School of Nutrition made a survey of freezer families. Every family interviewed said, "We couldn't get along without the freezer!"

Do you own a home freezer? If you don't, here is what you are missing.

With a Deepfreeze home freezer you can have a better quality, a greater variety of food at your fingertips—ready to serve any time, at lower cost.

You can shop less often—only in nice weather.

You're always prepared for unexpected guests, or any occasion that calls for food.

You can enjoy this summer's strawberries and corn on the cob next January—or any type of food any season of the year.

Because you can buy in quantity, cook in quantity, you can make worthwhile savings in time, work, food and money.

Why miss the pleasure, convenience and economy a genuine Deepfreeze home freezer can give you.

Imperial Model CU-126 (12 cu. ft.) illustrated above. Available also in model CU-196 (18.6 cu. ft.)

Deepfreeze Upright Freezers, Too!

Deepfreeze has a complete line of freezers with a model for any size family, or purse. Beautiful Deepfreeze Upright Freezers are available for the family where there is minimum floor space.

With a Deepfreeze Home Freezer . . .

1. **You shop less often—only in nice weather.**
2. **You cook and bake ahead for many meals.**
3. **You can buy in quantity at money saving prices.**
4. **You're always prepared for unexpected guests.**
5. **You cut meal preparation time and effort.**
6. **You do away with leftovers . . . avoid all waste of food.**
7. **You have greater varieties of food on hand always.**
8. **You enjoy all foods any season of the year.**
9. **You always have larger quantities of food on hand.**

Deepfreeze®

HOME APPLIANCES

Makers of genuine Deepfreeze Home Freezers, Refrigerators, Room Air Conditioners, Electric Ranges and Water Heaters. Also sold by authorized dealers in Canada.

Look for it! Insist on it! Deepfreeze—the trade-name of freezer fame!

© 1954

Send for this beautiful book on home freezing

Deepfreeze Home Appliances, Dept. SF-754
North Chicago, Illinois

Gentlemen:
Send "Invitation to Better Living," illustrated 64-page book on how to select and prepare foods for freezing. Enclosed is 10¢ in coin for handling and mailing.

Name _____

Street _____

City & State _____

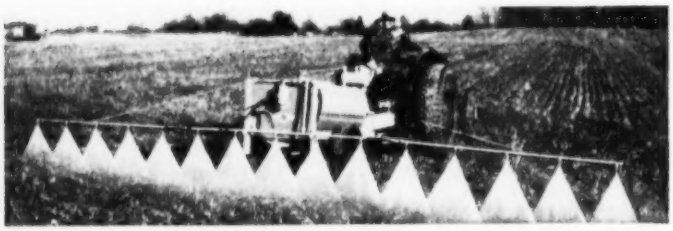
Nothing Covers Like a Spray

Whether your farm spraying jobs call for high-pressure, low-capacity spray or low-pressure, high-capacity applications, the new Myers Do-All PTO pumps will give you better spray coverage.

Myers Do-All PTO Pump

Used with the Myers Mighty Mite or with tractor-mounted booms, the 6-GPM two-cylinder version of the new pump is ideal for low-pressure weed spraying. The same pump will develop 300-pounds pressure, enough for good insecticide penetration when you go after livestock pests with a Myers cattle-spraying gun.

The Do-All PTO pump is also available in a one-cylinder, 3-GPM size.



MYERS GENERAL-PURPOSE SPRAYER

If the spraying jobs on your farm require more capacity and greater pressure, then a Myers GP is for you. Whether you need a low-pressure boom sprayer for fighting weeds or a high-pressure fog unit for fighting fires, the versatile GP can do the job. Engine-mounted models are available on wheels or skids for easy moving. PTO drives are also available.

Write today for the name of your nearest Myers sprayer dealer

MYERS POWER SPRAYERS

THE F. E. MYERS & BRO. CO.
5403 ORANGE STREET
ASHLAND, OHIO

Soils and crops

Planter pulled behind plow in Cornell tests

The once-over method of planting corn is being tried for the third year at the Cornell Experiment Station, New York. Here's how Prof. Sam Aldrich describes the method:

One tractor pulls a 2-bottom plow. A second tractor pulls a 3-bottom plow *and the planter*. The five 14-inch bottoms are wide enough for two rows of corn 35 inches apart. The fields are gone over once with a weeder when the corn is a foot tall and cultivated once.

• • • •

Willet—a new spring wheat

A new variety of spring wheat, Willet, has been developed by agronomists at the University of Minnesota. It is resistant to Race 15-B of stem rust at moderate temperatures—up to 65 and 70 degrees—and is resistant to leaf rust and scab.

It stood up better than most recommended wheat varieties through the 1953 rust epidemic.

The new variety is bearded and has brown glumes. Seed will be available to growers in 1955. Its milling and baking qualities are good.

• • • •

For quick mixing

Here's the slickest mixing device we've seen for stirring up a small batch of insecticide, weed-killer, or other chemical. It's several times as fast as a paddle or spoon. Just double a piece of baling wire back and forth, and it's ready to use. The idea comes from Dana Stewart, Peoria County, Illinois, farmer, who authored the article, "What 10,000 acres of weed spraying taught me," in last month's *Successful Farming*.

Photograph: Pease

"Shaking pecans or spraying cattle, our farm equipment does a better job with Champion Spark Plugs"

—says Mr. PETER HODKINSON, owner
Hodkinson Pecan Groves, Thomasville, Georgia

From a farm boy in Scotland to a farm owner in Georgia by way of Egypt and China is the fascinating story of Peter Hodkinson who, with his wife, Mary, and son, Sandy, raise Hereford cattle and the famous Farley paper-shell pecans on 300 acres of Thomasville's beautiful farm country.

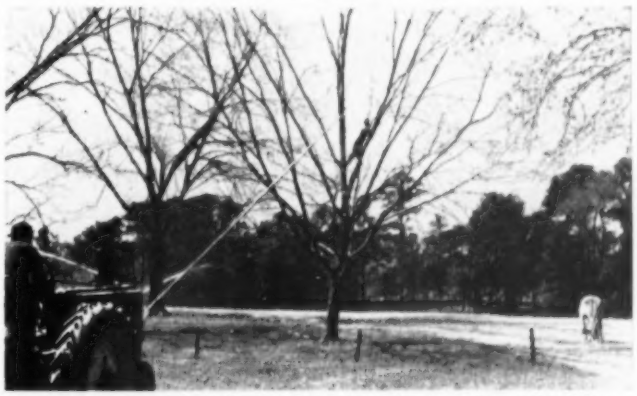
He sparked the founding of his county livestock association after being a director in the state organization. Now, with over 100 members in just three years, the County group is the third largest in Georgia. His own herd of Herefords now stands at around 150 head and reflects a continuing program of selection and breeding.

The farm grows a number of the better types of pecans, but is best known for its own special variety, the extremely thin-shelled and tasty Farleys. These are sold by mail and shipped all over the world.

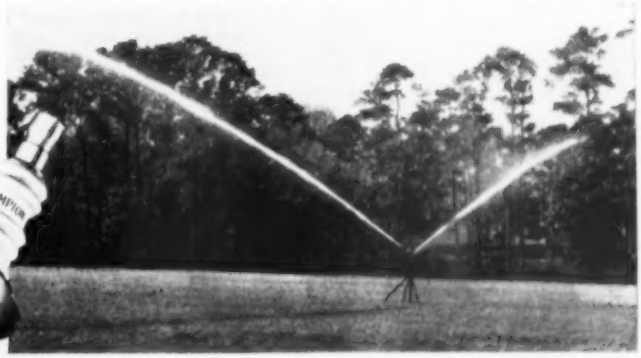
Says Mr. Hodkinson, "It is always a challenge to see how productive a farm can be made with a minimum of help. Not only does this involve such labor-saving items as our field hay-storage and feeding sheds, but also a close study of farm equipment and its efficient operation. One of the things we've found is that our farm engines including our personal cars, work best with Champion Spark Plugs. From balers to water pumps, from pecan shakers to sprayers, our equipment does a much better job with Champions. We like them!"

CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO

Tree spraying equipment is also used for spraying cattle. Although the tank is thoroughly flushed before filling with disinfectant, the farm takes the added precaution to use, on the groves, only those tree sprays that are nonirritating to cattle. Engines on all farm units are equipped with Champion Spark Plugs.



Pecan shaker is a tractor with crank on power take-off to give an eccentric or vibrating motion to taut cable attached well up in tree—thus shaking down the nuts. Cattle graze on Coastal Bermuda and Crimson or White Dutch clover in the groves except during the pecan harvest.



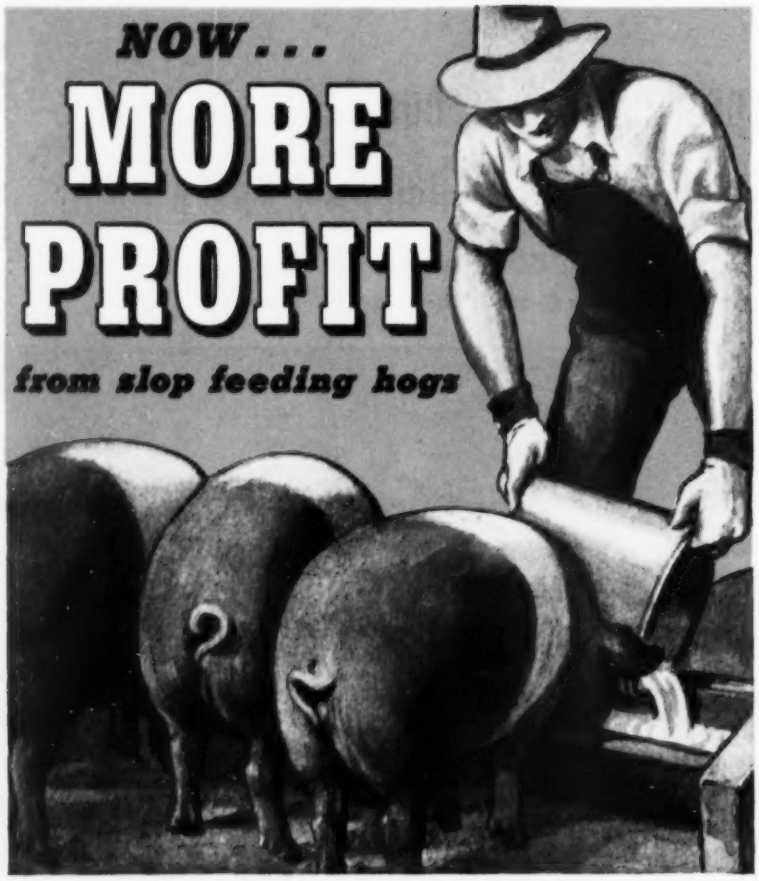
The sprinkler system is being constantly expanded to provide adequate water for all pastures. Pumps operating with Champions supply water from spring-filled lake. During the two off-pasture months, cattle are fed hay from four 50-ton hay storage and feeding sheds located at various points on the farm.

FOR EVERY ENGINE ON THE FARM—

DEPENDABLE

CHAMPION

SPARK PLUGS



New HOG FARE with the Whey Factor gives more GROW POWER per barrel!

HERE'S a new semi-solid whey supplement — Peebles' Hog Fare — that adds grow power to hog rations.

It speeds gains, promotes health, brings out the full feeding value of your ration. This extra grow power stems from the Whey Factor. Hog Fare is rich in this important nutrient, known to increase growth and step up feed efficiency as much as 17%.

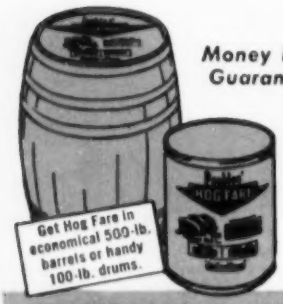
Peebles' Hog Fare conditions as it feeds — stimulates appetites, promotes good digestion. That's why farmers who feed Hog Fare note that their hogs do better—stay healthier, grow faster, seem better satisfied.

Hog Fare is highly concentrated. Can be mixed with water and ground grains for slop feeding, or mixed with water and fed as a drink. Every barrel is packed with the important growth-promoting nutrients of over 3,000 pounds of fresh liquid whey.

This high concentration of nutritious solids (46%) means that Hog Fare feeds further — costs far less for the benefits it gives. It's just the right consistency for easy feeding, too.

Get Hog Fare from your feed dealer now. Profit from the big difference the Whey Factor makes.

Write for FREE folder B-7



Money Back Guarantee

Peebles' HOG FARE

for slop feeding hogs

WESTERN CONDENSING COMPANY • Appleton, Wis. • Petaluma, Calif.
World's Largest Producer of Whey Products

Feed beef cattle

From page 46

After two weeks, the calves were switched to either corn or grass silage. With grass silage, the cattle were worked up to 5 pounds of ground ear corn and ½ pound soybean meal per head per day. Also, the cattle got all the silage they would eat during the winter and spring months.

From May until July 4, the cattle grazed the second-year alfalfa-brome pasture and were fed 5 pounds ground ear corn and ½ pound soybean meal daily without silage. Then, the calves were pushed to a full feed of 12 pounds of ground ear corn and 1 pound soybean meal while still on pasture. Cattle are left on pasture until September.

In September, the cattle went into dry lot for 30 to 60 days until sold. The dry-lot ration is 18 pounds of coarsely ground shelled corn, 1½ pounds linseed meal, 1 pound molasses pellets, and good-quality alfalfa hay. This is the basic feeding plan followed, although the handling of steers and heifers may vary.

Harold likes to feed mixed calves to add flexibility to his feeding operations. The steers and heifers are either fed together or separated, depending upon how the market looks. In 1953, Harold separated the heifers from the steers in April and put them in dry lot on a full feed. The ration was ground ear corn ranging from 12 to 18 pounds daily per head plus alfalfa hay and a supplement of 1½ pounds linseed meal, and later, 3 to 6 percent molasses pellets.

These heifers sold on the market in September for $24.23 per hundred after selling costs were deducted. Records show that the heifers gained 1.5 pounds per day for 304 days, with a total gain of 456 pounds per head.

The feed cost of gain per hundred was $20.80. Thus these heifers returned $2.34 per hundred, or $10.90 per head above feed costs. This was in spite of a selling price of $1.27 below the $25.50 purchase price.

The steer calves fed on pasture gained 1.8 pounds per day for 388 days for a total gain of 698 pounds per head. The feed cost of gain per hundred on these steers was $17.75. The steers cost $29.50 and sold for $23.90, resulting in a $5.60 negative price spread. In spite of this price handicap, the steers returned $2.40 per hundred pounds gain, or $16.65 per head above feed costs.

The 1952-53 feeding period was considered unfavorable by most cattle feeders. So Harold feels that if he can achieve these results in an unfavorable year, then he can't afford *not* to continue the present operation. Cheap, home-grown roughage is the answer—not only for cattle profits, but for soil fertility, too.

As this is written, Harold has calves on feed which cost $20 per hundred. On the basis of past years' records, he estimates he will break even on his feed costs if these calves sell for $18.50. **END**

Hormone spray for tomatoes

Used to stop "blossom-drop"

If you grow tomatoes, you probably know about the hormone spray which "sets" the first blossoms on the vine and insures an early crop.

You may not know how little this spray costs. Agricultural scientists and commercial growers estimate the cost at about $1 per acre. One pint will treat hundreds of plants, and all the equipment needed is an ordinary garden spray gun.

It's common nightmare: "Blossom-drop," which the hormone spray prevents, is the common nightmare of all tomato growers. It occurs most frequently when night temperatures fall below 59 degrees or go above 68.

It requires from 45 to 50 days from blossom-set to full maturity, and if the first blossoms drop off, it may be two or three weeks before the second cluster opens up. Ripening of this second cluster often comes uncomfortably close to frost time.

Results: Field and greenhouse tests with the hormone spray have produced some startling results. Yield increases by the bushel have ranged from 30 to 50 percent. Some plants treated with the hormone developed 90 percent fruit from the blossoms, while untreated ones got only 50 percent.

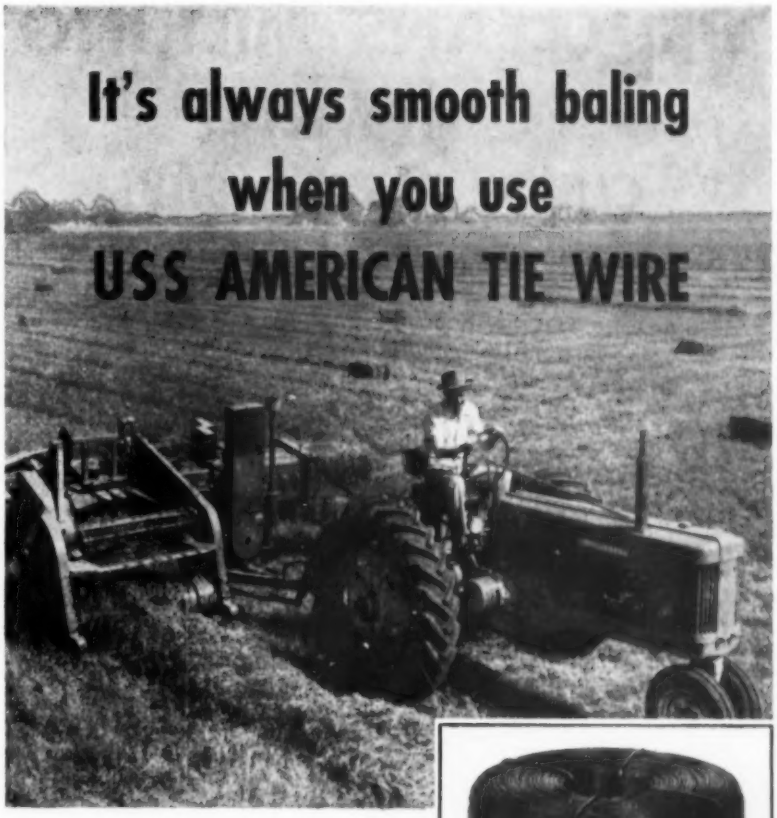
Reports indicate that a single application of the spray just as the clusters open will bring a high return, but two or more sprayings at weekly intervals will bring an even better yield.

Many home gardeners have reported ripe tomatoes as much as a month earlier than their neighbors who did not use the spray. Some said that sprayed tomato blossoms produced fruit with fewer cracks and less black rot.—*M. C., Illinois.*

Tape it easy

Here's a handy method of starting a slot-headed screw if you don't have a screw-holding screwdriver available, but need one for close-quarter work.

Take a narrow piece of adhesive tape about 1" long, and fasten it to the screwdriver, sticky side out (as shown). Then you can hold the screw—and your temper, too.—*G. S., California.*



YOUR automatic baler will operate as it never did before when you load it with non-stretching USS American Tie Wire. It will turn out firm, compact hay bales—tightly tied, easy to handle, easy to stack.

USS American is the original tie wire that helped to make the automatic baler practical. It has been carefully field tested to make sure it feeds smoothly and evenly. Moreover, American Tie Wire is specially wound to fit all types of automatic pick-up balers.

Order American Tie Wire from your authorized dealer and distributor, now. And when you do, be sure to specify the make and model of your baler.

WHY USS AMERICAN TIE WIRE IS TOPS

- Specially developed for automatic balers
- Rewound in coils to fit each machine
- Made of steel having the proper combination of strength and ductility
- Works smoothly—ties easily

USS

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UNITED STATES STEEL EXPORT COMPANY, NEW YORK

USS AMERICAN TIE WIRE
For Automatic Balers

UNITED STATES STEEL

VEL* CLEANS MILKING EQUIPMENT

CLEAN! FAST! EASILY!

HIGH-QUALITY MILK DEMANDS CLEAN EQUIPMENT

Only clean milking equipment will deliver Grade-A milk — give you higher profits. 100% non-alkaline Vel does an excellent cleaning job, no matter how hard the water. Vel is not a soap —contains none of the harsh alkalis found in washday detergents. Vel is a *neutral* detergent recommended by leading agricultural schools and milk sanitarians.

*VEL is the trade-mark of Colgate-Palmolive Co.

FOR MILKING EQUIPMENT OR DISHWASHING

VEL'S "HAND-HEAT TEST" shows how to help avoid ROUGH, RED HANDS!

Dip hands in water. Then put a tablespoonful of any leading washday detergent in one hand — put a tablespoonful of VEL in the other.

Feel the heat with any leading washday detergent, indicating irritating alkalis and harsh chemicals that cause "detergent burn".

Feel NO heat with Vel because Vel contains no alkalis or harsh chemicals. There's no "detergent burn" to hands with Vel.

VEL makes dishes shine WITHOUT WASHING OR WIPING!

● **Just soak and rinse . . . If a bit of food clings, a touch of the dishcloth gets it off!**

TIPS

Ideas that add sparkle to meals —make food preparation easier

For perfect upside-down cakes, line the pan with aluminum foil. When the cake is done, just turn out of the pan and peel off the foil. You'll have no topping sticking to the pan with this method.—*Mrs. Pearl Spencer, Missouri.*

Give carrot sticks a new flavor by letting them stand overnight in liquid drained from dill pickles.—*Mrs. Harold Witt, Iowa.*

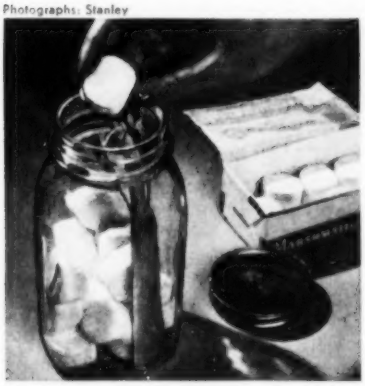
When making coconut cookies, try toasting the coconut and crumbling it slightly before adding to the dough. It adds pleasing crunchiness and does away with long strings of coconut.—*Mrs. Pearl Spencer, Missouri.*

Chocolate 7-minute frosting can be made by stirring ½ cup of semisweet chocolate pieces into your basic 7-minute-frosting recipe while it is still hot. If you like a marbled effect, just partially blend in chocolate pieces.—*Mrs. R. C. Jester, Oklahoma.*

for the cook

To frost cookies easily, place a chocolate candy wafer on each cooky and return to the oven for a minute or so to soften the chocolate. Take out of the oven and spread the melted chocolate over the tops of the cookies. Cool. If necessary, chill the cookies for a short time to resolidify the chocolate. This is a nice dress-up for plain cookies.—*Mrs. I. J. Mork, North Dakota.*

Photographs: Stanley



Soften hard marshmallows by placing them in a jar with a stalk of celery. Cover tightly and let stand for a day or until marshmallows become soft again. The length of time will vary with the dryness of the marshmallows.—*Eva King, Hutsonville, Illinois.*

A crunchy, appetizing topping for macaroni and cheese or other casserole dishes is a mixture of ½ cup crushed potato chips and ½ cup grated cheese. Sprinkle over the top before putting in the oven and bake it as usual.—*Laura Schott, Iowa.*

To make easy orange frosting, use undiluted frozen orange-juice concentrate as the liquid in your favorite confectioners'-sugar frosting recipe.—*Teresa Naylor, Illinois.*

New antibiotic treatment especially for poultry. Use Terramycin Poultry Formula in drinking water to fight Blue Comb Disease, Pullet Disease, Mud Fever, Non-specific Enteritis, Chronic Respiratory Disease, Hexamitiasis.

Easy drinking water treatment

Cuts Blue Comb loss in 12 to 24 hours

Wonder-working Terramycin halts mortality, gets birds back on feed in 1 to 2 days

Here's the easy antibiotic way to get Blue Comb Disease under control in hours. Even a sick bird off feed can still drink. And Terramycin Poultry Formula, drinking water treatment, gets fast-acting antibiotic into thirsty, feverish birds in minutes.

Wonder-working Terramycin shows results almost immediately—cuts death losses sharply in as little as 12 to 24 hours. It helps get birds back on feed quickly and helps prevent lost egg production or total loss.

Sick birds off feed, enteritis symptoms, listless, drooping birds are usual signs of Blue Comb Disease. Don't risk high losses. Be ready to act quickly. Get Terramycin Poultry Formula now—at your hatchery, drug store or feed store. Have it on hand.

Effective treatment of disease requires prompt and accurate diagnosis. Be sure to consult your veterinarian or poultry pathologist.

"Better than any other treatment for Blue Comb Disease," says Mr. Ralph G. Hunting, Moville, Iowa, who used Terramycin Poultry Formula on 8500 turkey poults down with Blue Comb. Terramycin quickly stopped mortality, sent feed intake back to normal.

This flock-size package treats one average case—300 pullets for 2 to 5 days. Pfizer poultry specialists developed Terramycin Poultry Formula especially for poultry.

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BRAND OF OXYTETRACYCLINE
POULTRY FORMULA

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Brooklyn 6, New York

Pfizer

World's Largest Producer of Antibiotics

Livestock

Cheapest ways to feed 3-week weanling pigs

University of Wisconsin researchers found that pigs taken from the sow at 3 weeks of age do best on a feed made up of both pig starter and milk replacer.

When replacer and starter were used together in the feeding program to 8 weeks of age, pigs gained .54 pound daily for a cost of 17 cents a pound gain.

One feeding program started pigs on half replacer and half starter for 1 week, then put them on starter for the remaining 4 weeks. The other ration was one-fourth replacer and three-fourths starter for 2 weeks, then starter the remaining 3 weeks.

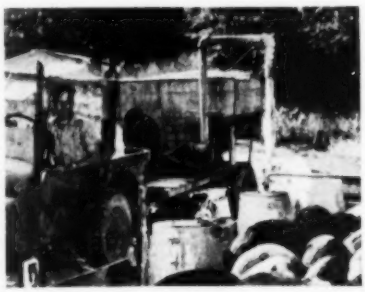
• • • •

Power take-off operates portable swill cart

A homemade swill cart takes the work out of feeding hogs for James Hopkins, Jr., Kendall County, Illinois.

Hopkins used tongue-and-groove lumber to build the wooden tank mounted on an old wagon axle. To fill, Hopkins drives under an overhead bin for grain and adds water at a pump house.

Wooden paddles attached to a pipe extending across the top of the tank mix the feed. The paddles are rotated by a chain drive from the power take-off. An auger in the bottom keeps the feed churned up. The power take-off pumps the swill directly into barrel feeders. (See below.)



Vertical pipe swings over side, pumps swill directly into feed barrels located in pasture. A power take-off operates the rig

• • • •

Heat hardest on sows

Young growing pigs can withstand hot weather much better than big sows. Studies at the California Experiment Station with heat-controlled rooms indicate that litters of suckling pigs make good gains in 90-degree temperatures, while sows rapidly lose weight. Nursing sows have lost as much as 42 percent of their weight in 56 days when the air temperature was 90 degrees, and 26 percent when the temperature was 80.—*H. D., California.*

Everybody Looks! Everybody Loves Its Looks!

Super "88" Holiday Coupé. A General Motors Value.

Looks lovely . . . looks lively—*and it is!* For a thrilling lift in your life, we recommend a ride in a "Rocket"! So put yourself in the driver's seat . . . behind that sweeping panoramic windshield . . . and let the "Rocket" Engine take over! You'll *cruise more smoothly—steer more easily—pass more safely—stop more surely* when Oldsmobile's out-ahead power features go to work. Ring your Oldsmobile dealer for a ride you'll always remember . . . ring for a ride in a "ROCKET 88"!

"Be careful—drive safely!"

Vision of tomorrow! Panoramic windshield—most-talked-about feature of the year!

Sweep-cut fenders and doors give Oldsmobile that new American sports-car flair!

"ROCKET" ENGINE

OLDSMOBILE

University Tests Prove Glass Jars Ideal for Use in Home and Locker Freezing

3-Year Study Reveals Important Advantages of Home Canning Jars in Freezing Fruits, Vegetables, Meat and Poultry

What may come as a surprise and amount to a new discovery to many people, is seen in the striking advantages of glass jars for the home freezing of foods, as established by recent findings at the University of Massachusetts (Massachusetts Agricultural Experiment Station, Bulletin No. 465, June, 1952).*

While glass jars have long been familiar to home canners the country over, and have been used in the freezing of foods for several years, the fact that they are equally well suited for the latter purpose has not been widely known. These findings establish a number of essential characteristics and properties for a satisfactory package for home and locker frozen foods, all of which are afforded by regular home canning glass jars.

Glass containers have the advantage of being moisture-vapor-proof, which prevents freezer burn or the drying of foods. They are likewise leak-proof, preventing dripping of syrup. Glass containers have the further value of protecting foods from absorbing and giving off flavors and odors. They do not impart flavor or odor to the food, nor do they absorb grease, oil or water. Still another advantage of glass containers is that they are durable and may be re-used many times as they generally are in home canning. Then, too, unlike other types of containers and packaging, glass is always clean, never messy, does not stick to foods and contents are easily identified even without a label. All these advantages add up to a perfect container for the freezing of foods in home freezer cabinets, freezer lockers and in the freezer compartments of refrigerators.

NO BREAKAGE

Some people have questioned the use of glass jars for freezing because of a supposed tendency to break at low temperatures. Not so, says the University's Bulletin: "Technically speaking, there is no available evidence to the effect that the brittleness of such containers is increased at freezing temperatures."

Economy and convenience are other advantages to be realized by the use of glass containers for freezing foods. This is particularly true, it is pointed out, of home canners who are beginning to employ freezing as a means of food preservation, either entirely or as a supplementary method.

ATLAS JARS

ATLAS Jars have been used for more than fifty years by home canners. These jars have all the advantages noted in the University Bulletin.

In addition, ATLAS Jars are double tested for strength and individually inspected for clearness and perfect workmanship. They come in all sizes and, with ATLAS Arc-Lids, make a perfect package for freezing as well as canning.

FREE INSTRUCTIONS, RECIPES

Complete instructions for successful home freezing, as well as helpful hints and special recipes are available in a profusely illustrated folder which may be obtained free upon request to Hazel-Atlas Glass Company, Dept. D., Wheeling, W. Va.

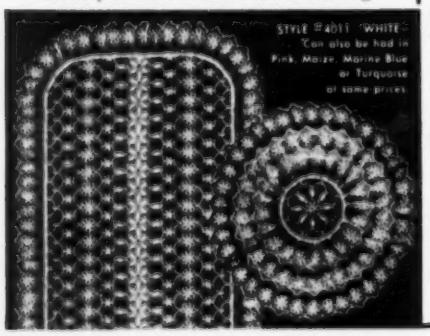
**Cooperation in this research was given by the Hazel-Atlas Glass Company, Wheeling, West Virginia.*

A Valuable Short Course on "How to Save More Pigs"

Successful Farming editors have prepared a film strip with 10-page commentary, illustrating successful raising techniques. Sale price: $2.25. Write Successful Farming.

for the home-lover...
NYLON SCARVES and DOILIES

Sheer ruffled NYLON, with dainty cotton-embroidered decoration. Adds beauty to your every room. Durable ...easy-to-wash...little or no ironing.



MONEY BACK GUARANTEE if not completely satisfied.

Indicate quantity and color desired next to size wanted. We Pay Postage.

Quan.	Size	Color	Price
	15" x 34" 1 ruffle		$1.75 ea.
	15" x 43" 1 ruffle		2.00 ea.
	15" x 52" 1 ruffle		2.40 ea.
	15" x 63" 1 ruffle		2.75 ea.
	12" x 18" 1 ruffle		1.25 ea.
	11" x 14" 1 ruffle		1.00 ea.
	8" x 14" 1 ruffle		.75 ea.
	9" round 2 ruffles		.75 ea.
	12" round 3 ruffles		1.00 ea.
	15" round 4 ruffles		1.25 ea.

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P.O. Box # 49, Englewood, New Jersey

Please send the scarves and doilies, in the sizes, colors, and quantities indicated above.

I enclose $_____ Check ☐ Money Order ☐ Cash ☐ No CODs.

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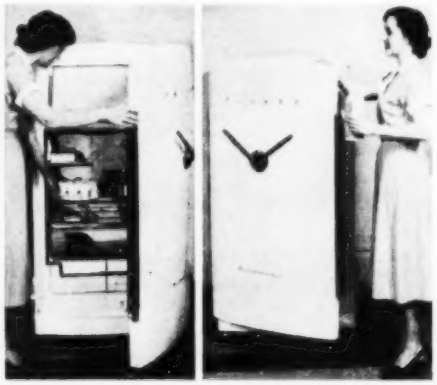
CITY _____ STATE _____

New refrigerators

—which one for you?

New styles and features make it easy to find one to fit your needs

Double-door 15-cubic-foot refrigerator is welcome news for a big farm family. With no divider between doors, there's free access to whole food compartment when doors are open. Large frozen-food area at top is insulated to maintain a safe zero zone for long-time food storage.



Future style may be a refrigerator mounted on the wall like this experimental model. With all its shelves at near eye level, it ends stooping, makes foods easier to reach. Door fronts can match other room colors.

Door storage is an interesting feature in most of the new refrigerators. This one has a butter conditioner with temperature control, rails on shelves to prevent tipping of tall bottles—and even a special holder for a handy roll of aluminum foil!

Freezers at the bottom, and larger in capacity, are seen in the new refrigerators. This gives generous frozen-food space and keeps frequently used, *unfrozen* foods in the most convenient place.

◂ **Two-direction door** is a convenience highlight. A V-shaped handle opens the door either to right or left, according to side you pull. Door opening will be handy with the refrigerator in any location.

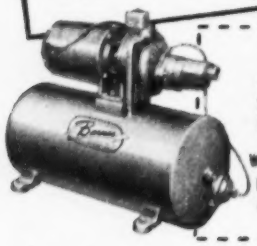
The difference between this... →

and this... ↓

is often this... →

SO FINE! SO LOW IN COST!
THAT NO ONE NEED BE WITHOUT A WATER SYSTEM!

No Money Down
No Carrying Charges
A Year to Pay
Only $109.50
F.O.B. Factory



THE NEW BARNES "ECONOVERT" SHALLOW-DEEP PACKAGED JET CONVERTIBLE WATER SYSTEMS
Pumps as much as 630 Gallons Per Hour

Now is the time to get that water system you and the whole family have wanted! Never before has one manufacturer offered so much for so little! And buying the Barnes Econovert is a pleasant, painless move. Just think! No money down! No carrying charges! A year to pay — if you like.

And the Barnes "Econovert" is a fine water system. Works on either deep or shallow wells. Converted to either — with no extras to buy. Delivers up to 630 gph. (This is a jet pump. Please don't confuse it with lower-capacity reciprocating pumps.) Comes complete with tank and fittings. One package. Everything in place for quick, low-cost installation. It's the buy of the year. You will definitely want to know everything about it. Mail the coupon today for full details!

THE MOST COMPLETE LINE OF WATER SYSTEMS
Barnes has a water system for every farm and home need. Capacities up to 10,500 gph. Well depths to 520 ft.

Factories in Mansfield, Ohio and Oakland, Calif.

Barnes Manufacturing Co., Mansfield, Ohio
Send me free booklets on these water systems:
☐ Barnes $109.50 Econovert ☐ Barnes Submersible Pumps ☐ Barnes Shallow and Deep Well Jet Pumps (SF572)
Name
City
Route State

There's a BEST TIME to service your tractor

Prevent major repair with TIMELY care!
Manufacturers specify when maintenance is needed for trouble-free performance. Your tractor lasts longer and stays out of the repair shop with proper maintenance.

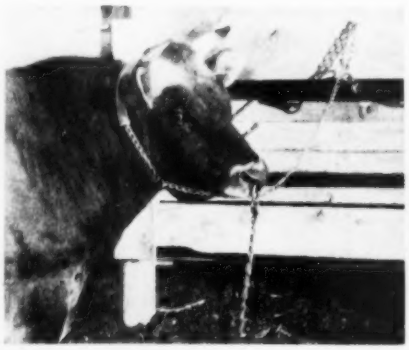
New and improved through continuing engineering research

HOBBS Engine Hour METER
Tells WHEN to change oil, lubricate, overhaul, etc. Leading manufacturers recommend the meter as a way to better performance.
NOT A REVOLUTION COUNTER
. . . but an electric timing instrument that shows HOURS and MINUTES of tractor operation — accuracy that's important for protective maintenance. Ruggedly built and easy to install. LOW PRICE — see your dealer or WRITE FOR FULL DETAILS.
ORIGINATED AND MANUFACTURED EXCLUSIVELY BY
John W. Hobbs Corporation
2059 YALE BLVD. SPRINGFIELD, ILLINOIS

Strong bull pen is best protection for you. Petting tames bulls, but be careful so hand isn't pinned against fence

How to Handle a bull—safely

By Dr. Philip Kelley

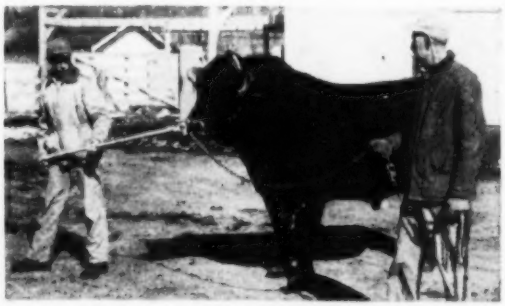


Best way to tie a bull is shown above. Chain is passed through the ring and around the neck. A piece of hose around the chain and over the top of the bull's neck prevents skin trouble

Nose damage resulted from tying bull by ring. Nose damage makes it impossible to insert new ring for protection and reduces appearance, value

Right way to lead a bull is shown above. Use a strong staff attached to the bull's nose ring and keep the bull's head high. Keep your eye on the bull, lead him slowly

Wrong way to lead a bull. With his head down, the bull has much more leverage on staff and can snap it out of your hands easily. Not watching bull is a careless habit



Hard-to-handle bulls can be led as shown. Use an additional chain plus the staff. Man holding chain should stand back, but to one side. Standing directly behind scares bull

Photographs: Riggle

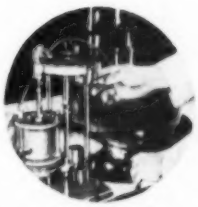
SWP HOUSE PAINT

Lasts Longer...Saves Money

It pays to be "choosy" when you select the *brand* of exterior paint to be used on your buildings. The slight difference in cost between world-famous SWP® House Paint and house paint of ordinary quality pays for years of extra wear and is one of the wisest economies you can make.

In 1953, Sherwin-Williams SWP House Paint was used to paint more homes in America than any other brand. Why? Continuous research in Sherwin-Williams Testing Laboratories, and in the field has insured constant improvement and the top-quality performance of SWP. You'll be money ahead when you discover there *is* a difference in house paints!

Tested for Your Protection . . . A most exacting testing procedure through every step of manufacture assures maximum beauty and protection in SWP House Paint. Laboratories in every Sherwin-Williams factory are charged with the responsibility of absolute quality control of every gallon produced.



Ease of Application Assured . . . Invented by Sherwin-Williams Testing Laboratories, this instrument, known as the High Shear Viscometer, is an extraordinary development which measures the brushing qualities of paint, scientifically. This testing procedure has made possible the superior brushing qualities in SWP House Paint which insure remarkable ease of application.

White and Colors That Last . . . All over the country Sherwin-Williams maintains test stations where house paints of every type are exposed to years of weather and wear. SWP white that stays *white* and SWP colors that maintain their brilliance are the direct result of this painstaking research.

The Sherwin-Williams Co.
1290 Midland Building
Cleveland 1, Ohio

Please send me your *free* booklet, "The Home Decorator".

Name _____

Address _____

City _____ Zone or R. R. _____ State _____

Let us recommend a reliable painting contractor.

Go to the store that displays this famous trade-mark . . .

SHERWIN-WILLIAMS SWP HOUSE PAINT

ON TV . . . TUNE IN THE SUPER® KEM-TONE SHOW, STARRING RAY BOLGER . . . ABC NETWORK EVERY WEEK

George Kelly of Crooks, S. D., uses a 50-foot electric conveyor to elevate grain into storage bins. Gravity drops it to the grinder. Daughter Mary watches. A 5-horse portable motor hooked to grinder also runs the blower that shoots ground feed back up to its own bins.

FARM USE OF ELECTRICITY TO DOUBLE BY 1962

Within eight years, local farm electric groups and electric companies estimate, America's farms will be using *twice* as much electricity as they do today.

Today 96% of America's occupied farms receive electric service, so little of this increase will come from rural line extensions. More work for electricity on the farm will take most of the increased power. More work, for example, by electrically operated barn cleaners, crop dryers, mixers, elevators and conveyors of many types —and by new appliances in the home.

How will the farmer get this additional power? From the lines of the power companies and local farm electric groups that already carry power to farms.

As electricity gets more and more important in the business of farming, the work of local farm groups and electric companies is bound to get more and more useful for all.

AMERICA'S ELECTRIC LIGHT AND POWER COMPANIES*

**Names on request from this magazine.*

LIGHT FOR FREEDOM—
POWER FOR PROGRESS

Poultry

High levels of antibiotic in feed cuts disease losses

Here's a new approach to the problem of disease prevention in poultry.

The continuous use of feeds containing 50 to 200 grams of aureomycin per ton of feed for the entire life of chickens and turkeys is recommended by some of the top poultry veterinarians. Occurrence of such diseases as CRD (air sac), sinusitis, nonspecific enteritis, and blue comb is reduced at these high levels. The result is increased rate of growth, increased feed efficiency, and reduced mortality.

To determine the economic value of using continuous high levels in the feed under actual poultry-raising conditions, over 40 experiments—involving more than 750,000 birds—have been conducted or are in progress. The experiments have established practical high levels of feeding and evaluated their effectiveness under disease conditions.

Net returns from birds fed on continuous high levels exceeded those from flocks receiving the so-called "nutritional levels" of antibiotics or spot treatment after disease outbreaks occur.

• • • •

Pullets healthier on green range—require less feed

Clean, tender, green range results in healthier, high-producing pullets, requiring less feed.

Results from the Vermont Experiment Station show the greatest feed saving comes between the sixteenth and twenty-fourth week of age. A saving of $50 worth of feed resulted from ranging 500 pullets to the acre and using the restricted feeding system.

Ohio Experiment Station tests show a 5-percent higher egg production and a reduction of laying-house mortality from 21.5 to 11.3 percent when range-reared pullets were compared to those raised in confinement.

• • • •

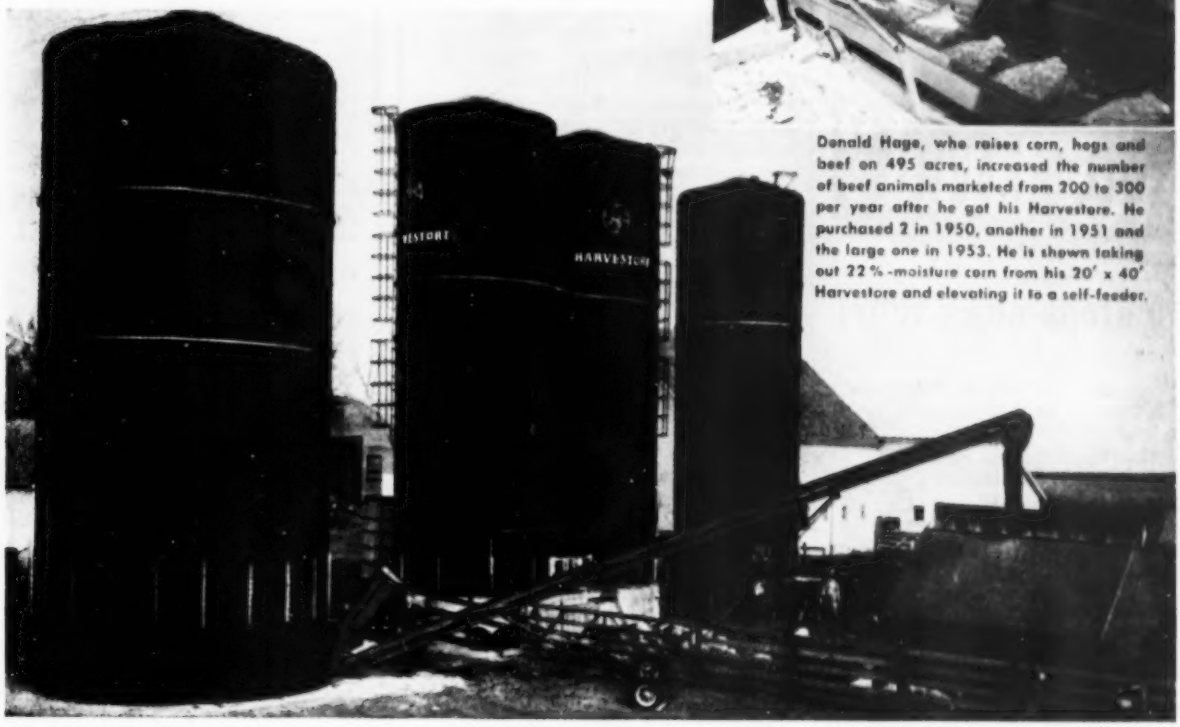
Fit your flock to your over-all farm operation

Here is a rule of thumb, recommended by Schell Bodenhammer, Missouri extension poultryman, to help you determine the size of flock for your farm.

If you're producing eggs only for home use, 4 or 5 hens for each member of the family will do the job. If the laying flock is to be a paying part of the farm business, the flock probably should be in the 300- to 500-hen range. Shoot for a 1,000-hen flock if poultry is to account for half the farm business. A full-time operation consists of 2,000 or more layers.

"I fill my Harvestores with 22%-moisture shelled corn direct from the picker-sheller. This gives me safe storage without losses from spoilage, heating, rodents or insect damage. Best of all, the Harvestore is the lowest cost-per-bushel, permanent storage that you can build for shelled corn!"

Donald Hage Inwood, Iowa



Donald Hage, who raises corn, hogs and beef on 495 acres, increased the number of beef animals marketed from 200 to 300 per year after he got his Harvestore. He purchased 2 in 1950, another in 1951 and the large one in 1953. He is shown taking out 22%-moisture corn from his 20' x 40' Harvestore and elevating it to a self-feeder.

"After four years experience with my Harvestores, I say:

you can't beat a Harvestore for corn storage"

—DONALD HAGE

The Harvestore is ideal for storing corn at all moisture levels . . . the only structure that will safely store corn at *higher* moisture levels without drying. Saves a soft corn crop in case of early frost. You can grind corn-and-cob meal directly into the Harvestore. The Harvestore fills your complete storage needs, from grain to silage and hay.

Seven sizes are now available—a size for every farm—from 2800 to 9200 bushels capacity. You can add to the smaller sizes later, to fit your future requirements.

Mechanical bottom unloader adapts the Harvestore easily to mechanical feeding and eliminates the back-breaking, time-consuming labor of hand shoveling!

Low cost per bushel . . . permanent, maintenance-free structure. The Harvestore is built of glass-surfaced steel . . . glass-surfaced inside and out. No corrosion! No weathering!

Fill out and mail the coupon now. You'll get complete information on the Harvestore and our *new, liberal 5-year financing plan* . . . and tax write-off also in five years! You'll find it pays in many ways to have a Harvestore on your farm.

mail this coupon today

A. O. SMITH CORPORATION, Harvestore Division
Dept. SF-754, Milwaukee 1, Wisconsin

Please send me a copy of "The Harvestore . . . The Ideal Corn Storage Structure" and information on Harvestore's many uses.

Name _____

RFD Route _____ Town _____

County _____ State _____

two drops-quick relief

Why submit to the annoyance of tired eyes? Just two drops of Murine in each eye wakes up your eyes to cool delight. Murine is so simple and quick to use. Murine makes your eyes feel good.

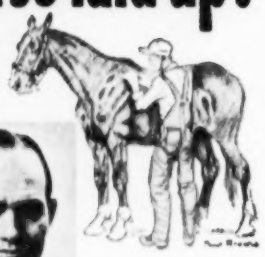
MURINE
-for your eyes

In the kitchen

A few drops of highly penetrating 3-IN-ONE make appliances run better. It never gums up the way many oils do.

"3-IN-ONE" OIL

Horse laid up?



"HERE'S WHAT I DO"

says *Norwood Andrews, of Moorestown, N. J.*

"Whenever my horses show signs of lameness, I use Absorbine for relief. I'm sure it has saved me many working hours in the past ten years."

There's nothing like Absorbine for lameness due to strains, puffs, bruises. Absorbine is not a "cure-all" but a time-proved help in relieving fresh bog spavin, windgall and similar congestive troubles.

A stand-by for over 50 years, Absorbine is used by many veterinarians. Will not blister or remove hair. Only $2.50 at all druggists.

W. F. Young, Inc., Springfield, Mass.

ABSORBINE

Molasses

From page 41

molasses is fed free-choice, beef cattle will usually consume 4 to 6 pounds per day if they are getting a good ration along with the molasses. If molasses makes up most of the ration, as it sometimes does in the South, beef cattle may consume 10, 15, or 20 pounds per day. Dairy cows make good use of molasses when they consume 3 to 4 pounds daily.

Molasses has a slight laxative action, so overfeeding should be avoided. However, a number of farmers told me that animals won't overeat on molasses if they are getting a balanced ration in addition to the molasses.

Livestock should be "conditioned" to molasses. Begin by feeding small amounts, then slowly increase the amounts until the maximum is reached. Molasses tastes good to livestock. It appeals to their "sweet tooth" and they'll eat a good deal of poor feed if molasses goes with it. Because of its palatability, molasses adds more to a ration than just energy, minerals, and vitamins.

The actual handling and feeding of molasses to livestock is not the problem a lot of folks think it is. Very little investment in equipment is needed for an average-size livestock feeder. The usual methods of feeding grain and hay can still be followed even though molasses is fed. Naturally, large users of molasses find special equipment a big laborsaver, but you can get by with little or no special equipment.

Where can you buy molasses? A few years ago, molasses wasn't readily available to all farmers. Now, the situation is different.

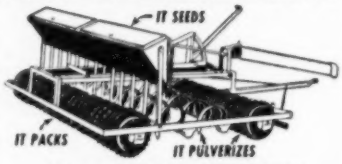
For farmers requiring small amounts of molasses, 55-gallon barrels are available in almost every community. Feed stores, feed mixers, and molasses distributing companies can meet almost any kind of demand for molasses.

Farmers needing more than an occasional barrel of molasses can get delivery by tank truck in many localities. These deliveries to individual farmers are usually in 2,000- to 3,000-gallon lots, but some companies will deliver as little as 500 gallons. Of course, for tank-truck delivery, you need storage facilities at your farm.

Prices for feed molasses delivered by tank truck are usually only a few cents higher per gallon than the tank-car price at the nearest terminal. Tank-truck delivery affords the cheapest means of getting molasses for farmers who have storage facilities at their farms.

The price of molasses in drums or barrels is higher than other types of delivery. But, you can reduce the cost by furnishing your own barrels and taking them to the molasses distributor to be filled. In other words, do your own hauling. Many livestock feeders in the Midwest are holding down costs by following this practice. END

GOOD SEEDING PAYS!



NEW WESTERN BEARCAT SEED BED MAKER and SEEDER

Combination spring tooth harrow, sprocket packer, mulcher, and seeder. Pulverizes and packs finest of seed beds, then evenly, accurately sows any seed. All in one operation! Pays for itself in saving seed, especially Alfalfa, Clover, or any Grass Seed, sown mixed or separately from one seed box.

Seed drops ahead of rear roller section and is pressed firmly into soil by both Packer and Mulcher wheels. Leaves surface mulch without grooves. Great help in preventing washing, crusting, and blowing. Holds the moisture. Seeder mounted or removed quickly. Seed Bed Maker and Seeder available as combination, or each separately. Write for full details.

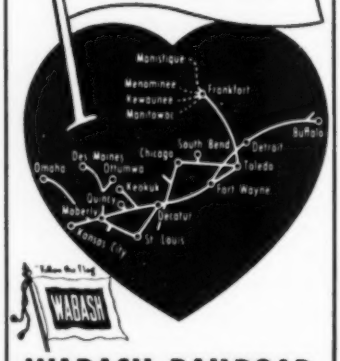
..also a BEAR CAT Tractor Hoist
Better than a Hired Man

The handiest and most practical lift you have ever seen or used for dumping corn or grain wagons, unloading and loading machinery, pulling out fence posts, stretching wire, lifting heavy objects, and a thousand and one other farm jobs. Simple in construction, quick to attach and detach. For tractors equipped with hydraulic pumps. Light in weight, leave on tractor. Does not interfere with take-off drive or hitch.

For full information about either Bear-Cat product described here and name of dealer nearest you — Write us today. No Obligation.

Western Land Roller Co., Dept. 606-26
Hastings, Nebraska—Manufacturers

Ship Direct! Ship WABASH!



WABASH RAILROAD

TRACTOR CONCRETE MIXERS

IT'S FUN to do concrete work with a Frohring Redi-mixer! Transporting and mixing—all by tractor power. Load mixer anywhere, deliver ready-mixed concrete direct to your forms. No wheelbarrow needed. Models illustrated for Ford or Ferguson tractors, models available for YOUR tractor. Also new Universal model that will operate either from tractor PTO, electric motor or gasoline engine. Write for FREE information TODAY PLEASE give make and model of your tractor.

R. L. FROHRING MACHINE CO. Box 100, Chagrin Falls, Ohio

Laughing at Life

Plays No Favorites

Worker A: "Yes, the boss is mean all right, but he's fair."
Worker B: "What do you mean he's fair?"
Worker A: "He's mean to everyone."

Drastic Solution

One of the test questions asked a class of youngsters was: "What can be done to help prevent floods?"

Grading the papers, the teacher ran across this answer: "Floods can be prevented by putting big dames in the river."

What, Not a Knot?

For sale: Naughty white-pine paneling, $16.50 per 100 ft.—**Advertisement in Houston (Texas) Post.**

Voices of Experience

A movie star was declaring his love to his prospective sixth wife. "But I've heard some awful stories about you," said the girl.

"Don't worry about that," he replied. "They're nothing but old wives' tales."

Profitable Admission

A Scotchman in a hotel lobby was bragging about the great deeds he had done. Finally, a bored Englishman challenged: "Tell me something you *can't* do—and I'll do it myself."

"Thank ye," quickly replied the Scot. "I can't pay my hotel bill."

It Happens Too Often

Hospitality is the art of making people feel at home when you wish they were.

SUCCESSFUL FARMING

"I look like Pop more than ever now, Mom!"

Tones up the Flock

WHEN THE SUN BEATS DOWN

Heads off HOT WEATHER trouble!

ALL the hot weather benefits of 60 gallons of fresh liquid whey are packed in every 50-lb. carton of Peebles' Free Choice Feed. Birds like its appetizing flavor and firm, moist consistency. Water and feed intake are increased. Feed efficiency is stepped up.

Peebles' supplies the Whey Factor and other important nutrients for faster growth, better feathering and less cannibalism. Helps develop pullets into early layers.

It's a natural conditioner that tones up digestive systems, perks up your birds in hot weather. Peebles' builds resistance to disease. Helps bring birds into production after setbacks. Buy it in 10-lb. and 50-lb. weather resistant cartons. Easy to feed free choice indoors or out.

Send for free folder B-7 "The Whey Factor Adds Grow Power."

Peebles' FREE CHOICE FEED

WESTERN CONDENSING COMPANY
Appleton, Wis. • Petaluma, Calif.
World's Largest Producer of Whey Products

10 lbs. 50 lbs.

WITH SOFT WATER

One cake of soap does the work of 4 or more!

SEND FOR THIS BOOKLET

With a DIAMOND Water Softener you'll use only 1/4 as much soap. Shorter washing time saves wear on clothes, too. Actually pays for itself.

Oshkosh Filter & Softener Co.
Oshkosh, Wisconsin

BUY DIRECT FROM FACTORY SAVE UP TO 85%

MASTER MECHANIC D-C ARC WELDER

Heavy duty—Use as portable or shop welder. Up to 300 amps. Senior model. Made for years of trouble-free, continuous service. Will handle light of heavy jobs. Easily weld up to 1/4" plate using 1/8" rods. Built-in air-cooling system. Arc is easy to strike and hold, because of specially designed arc stabilizer. Hi-lo switch and dial control gives wide range of welding heats. Run welder at 2600 rpm. with tractor, jeep or 14 hp. gas engine, or 7 hp. elec. motor. Complete with instructions, gear and **triple** V belt or flat pulley. You can pay more, but you can't buy a better welder. Wt. 110 lbs. $400 value at **$99.75**

with mountings Range. Item 18

DUAL CONTROL MODEL same as above but with built-in dual rheostat for low heat soldering, brazing, welding. Spec. **$119.50**

WELDING KIT. Two 10 ft. leads, welding helmet, electrode holder, ground clamp. Sold only with Welder at **$18.50**

Send 10c for Big 1954 Catalog. Free with order. Prices f.o.b. Factory. 10 day Money back guarantee. Send check or M.O.

Master Mechanic Mfg. Co., Dept. 21 H, Burlington, Wis.

"Elmer gets his own meals now that the boss buys feed in strong, easy-to-carry BURLAP bags."

FREE. *Get cash for used burlap bags or make beautiful, useful burlap handicraft articles. Write for booklets.*

THE BURLAP COUNCIL
of the Indian Jute Mills Association
155 E. 44th St., New York 17, N. Y.

...and **Chromcraft** Dinettes are beauty at its best...brilliant colors, attractive patterns, stunning styles. T443 table has rustic Knotty Pine pattern, abuse-defying plastic top. 36" x 48" closed, extends to 60". Table legs are gleaming, ½ inch solid chrome rod. C54 chairs upholstered in green Caprice pattern plastic. Also available in modern black finish, T448 table, C24 chairs.

ChromCraft's new "Dinettiquette" Booklet is packed with suggestions on social usage for everyday living. It's free! Write Dept. S-74.

Chromcraft

Chromcraft DIVISION, AMERICAN FIXTURE AND MANUFACTURING CO.
4321 Semple Avenue • Saint Louis 20, Missouri

MENDS MOST ANYTHING
Get the New 2½ oz. Economy Size

Note—fine furniture makers use it for all major repairs!

McCormick & Co., Inc.
Baltimore 2, Md.

Pep Up Farm Group Meetings

Get "How to Save More Pigs," film strip with 10-page commentary. Send $2.25 to Successful Farming, Des Moines 3, Iowa.

NOW! CUT ENOUGH FRESH CORN IN ONE HOUR TO DO YOU ALL YEAR

Lee's CORN CUTTER and Creamer

• For Daily Use
• Frozen Lockers or Home Canning

It's the world's fastest, easiest way to remove tender, fresh, young, green corn from the cob. Cuts 5 times as fast at ¼ the labor. Five easy strokes finish an ear in less than 10 seconds. Saves hours of tedious, hard work. No mess, no splatter, no old-fashioned knife to cut fingers. This amazing invention cuts, shreds and scrapes in one operation. Adjustable for world's finest cream style or uniform whole kernel. Saves garden-fresh flavor. Fits all size ears. Easily cleaned. Thousands used coast to coast. Guaranteed. *Beat high prices—can or freeze your own corn. Save up to 60%!* If local dealer does not have, order direct. Dealers, write.

ONLY $1.50 ppd

LEE MFG. CO., INC. P. O. Box 6682-U Dallas, Texas

Also makers of Lee's Green Pea Sheller. Shells black-eyed and field peas quicker, easier. $1.50. Both for $3.00. Order extras NOW for gifts.

Hand Wrought Iron
MAIL BOX POSTS and "SCOTCHLITE" NAME PANELS
Big Selection—FREE *Catalog*
WRITE DEPT. S-F (Retail Only)

JO-VON INDUSTRIES
BOX 1285 • TOLEDO OHIO

Worry of FALSE TEETH Slipping or Irritating?

Don't be embarrassed by loose false teeth slipping, dropping or wobbling when you eat, talk or laugh. Just sprinkle a little FASTEETH on your plates. This pleasant powder gives a remarkable sense of added comfort and security by holding plates more firmly. No gummy, gooey, pasty taste or feeling. It's alkaline (non-acid). Get FASTEETH at any drug counter.

Low Cost "Automatic Water" for country homes, cottages, cabins, farms

Nothing else matches a Jacuzzi jet pump for dependable water service from lakes, rivers, wells. Gives 35% more pressure, 20% more water than similarly rated pumps. No moving parts below ground. Self-priming. No frost-proofing or lubrication needed. Patented. Dealers nationwide. Don't settle for less. *Be Choosey . . . Buy Jacuzzi!* Get the facts! Write:

JACUZZI BROS., INC.
Jacuzzi Avenue, Richmond, Calif. or 4100 Bayless, St. Louis 23, Missouri

Freezing

Here's how to prepare those July fruits and vegetables for storage in your home freezer or locker

Apricots. Choose firm, ripe apricots just right for eating. Handle rapidly. Wash, sort as to size, remove damaged fruit. Dip apricots in boiling water for 15 to 20 seconds until skins loosen. Chill quickly in iced water. Peel, halve, and remove pits. Pack halves, or slice directly into cold syrup (3 cups sugar to 1 quart water, plus ½ teaspoon pure ascorbic acid). Completely cover with syrup, leaving ½ inch headspace. Seal and freeze immediately.

Blueberries. Choose fresh, large berries that are fully ripened. Sort carefully. Stem, wash, and drain. Pack without sugar. It is desirable to scald wild blueberries in steam for 1 minute for better retention of flavor. Cool quickly in iced water. (Do not scald cultivated berries.) Package, seal, and freeze.

Blackberries. Choose firm, fully ripened berries. Handle quickly and carefully. Freeze as soon after picking as possible. Stem, sort, and wash carefully in iced water. Drain. For dessert use, pack in sugar syrup (3 cups sugar to 1 quart water). For pies, pack dry without sweetening. Berries may also be crushed and packed in sugar (4 pounds fruit to 1 pound of sugar). Pack, seal, and freeze immediately.

Raspberries. Select firm, fully ripened berries of bright color. Sort, wash in iced water, and drain. Pack in sugar syrup (3 cups sugar to 1 quart water) or with sugar (4 to 5 pounds of fruit per pound of sugar). Pack, seal, and freeze.

Peaches. Select firm, ripe peaches with a low darkening tendency. Peaches with red centers are desirable. Handle carefully and quickly, working with a small amount at a time. Wash, sort as to size. Prepare only enough for 1 container at a time. Scald whole peaches in boiling water for 15 to 30 seconds. Cool quickly in iced water. Remove skin, cut in half to remove stone. Slice directly into cold syrup (3 cups of sugar to 1 quart water, plus ½ teaspoon pure ascorbic acid). Completely cover fruit with syrup, but leave ½ inch for expansion. Pack, seal, and freeze.

Lima beans. Pick well-filled pods containing young, tender beans. Wash and remove beans from pods. (Don't wash after shelling.) Discard blemished beans. Prepare immediately. Scald small and medium beans 3 minutes in water, larger beans 4 minutes. Chill in cold running water. Drain. Package, seal, and freeze.

Canning . . . *do it this way for results you'll be proud of*

Apricots. Wash, dip in boiling water, then quickly in cold water. (Not necessary to peel.) Cut in half; remove pits. To prevent darkening, drop fruit into water containing 2 tablespoons each of salt and vinegar per gallon. Pack into hot jars. Heat syrup (medium or light) to boiling; pour over fruit. Process pints 25 minutes, quarts 35 minutes, in boiling-water bath. Or heat through in hot syrup. Pack hot fruit to within ½ inch of jar top. Cover with boiling syrup, leaving ½ inch headspace. Adjust jar lids. Process in boiling-water bath for 20 minutes.

Blueberries. Wash berries and drain well. Add ¼ to ½ cup sugar to each quart of fruit. Cover pan and bring to boil, shaking pan occasionally to keep blueberries from sticking. Pack hot in hot jars to within ½ inch of jar top. Adjust lids; process in boiling-water bath for 15 minutes.

Blackberries. Wash, drain, and measure firm, ripe berries. Put in kettle and add ¼ to ½ cup sugar for each quart of berries. Let stand 2 hours. Cook until sugar dissolves and berries are boiling hot. Pour hot into hot jars. Add boiling water if there is not enough syrup to cover berries. Process for 15 minutes in boiling-water bath.

Raspberries. Wash berries and drain well. Fill hot jars to within ½ inch of top with berries. Cover with boiling light or medium syrup, leaving ½ inch headspace at top. Adjust lids. Process in boiling-water bath for 20 minutes.

Peaches. Wash peaches. Dip in boiling water, then quickly in cold water. Remove skins. Cut peaches in half and remove pits. Slice, if desired. To prevent darkening during preparation, drop fruit into water containing 2 tablespoons each of salt and vinegar per gallon. Drain. Pack peaches in hot jars, leaving ½ inch headspace. Cover peaches with boiling medium or heavy syrup. Add more syrup, if needed, to cover fruit. Adjust lids. Process in boiling-water bath, pint jars 25 minutes, quart jars 35 minutes.

Lima beans. Can only young, tender beans. Wash thoroughly and shell. Cover beans with boiling water and bring to boil. Pack hot beans to within 1 inch of jar top. Cover with boiling water, leaving 1 inch headspace at top of jar. Add ½ teaspoon salt to pints, 1 teaspoon salt to quarts. Process in pressure canner at 10 pounds pressure, 35 minutes for pints, 60 minutes for quarts.

Neighbors

Looking from my door I see
His chimney top;
The friendly smoke that writes
"Good Morning" on the sky.
His arms, blue-clad,
Have rested on my fence.
We talked of crops and calves;
Politics and prices.

I know his metal . . . pure steel.
He has mined my heart
And knows its worthless ore.
Inch by inch, root by root,
We have grown together in the soil.
We share laughter and converse
with silence.
He is my neighbor.

—*Helen Virden*

A Product of General Foods

EASIEST, MOST ECONOMICAL WAY TO GIVE YOUR DOG COMPLETE NOURISHMENT

Thousands of dog owners have discovered that Friskies Cubes, fed *alone*, give their dogs every food element they are known to need, at a big saving in money, time, bother.

WHAT THEY ARE

Friskies Cubes are bite-size morsels rich in meat protein and containing 19 ingredients in all. Since they are compressed meal – not baked – Friskies Cubes retain all of their vitamins and minerals. They provide complete nourishment and exercise teeth and gums.

HOW THEY ARE FED

Quick, convenient, with nothing to add, not even water. No mixing – and no hard-to-clean bowls.

HOW THEY SAVE YOU MONEY

Friskies Cubes cost less than half as much to feed as most canned dog food. 2 lbs. of Friskies Cubes contain as much moisture-free food as 6 1-lb. cans of most canned dog foods. And there's no waste; simply save uneaten portion for next feeding.

WHY DOGS LOVE THEM

Continuous taste-testing among all sizes of dogs has developed the Friskies formula with its "meaty" taste and flavor that dogs prefer.

CARNATION COMPANY
ALBERS MILLING COMPANY DIV.
LOS ANGELES 36, CALIF.

Friskies

OVER 50 YEARS' EXPERIENCE IN ANIMAL NUTRITION

FOR VARIETY, FEED CANNED FRISKIES, TOO.

The "table-quality" dog food, with *plenty of rich red meat* – not just ordinary meat, but U.S. Govt. inspected horse meat! Canned Friskies also has all the food elements known to be needed for complete nourishment.

Enjoy Successful Farming's helpful hints for better living each month.

HOW TO GET ABSOLUTELY PURE PAINT

All Paint is composed of 3 things. 1—PIGMENT. 2—BINDER. 3—THINNER. BUT each of these must be PURE to give you an absolutely PURE Paint. 1. The only Pigment in POLAR WHITE is TITANIUM. It contains no filler. Titanium has a terrific HIDING POWER. 2. The Binder in POLAR WHITE is pure polymerized OIL chemically modified to give DURABILITY and FAST DRYING. 3. The Thinners in POLAR WHITE are pure and evaporate like Turpentine.

Now YOU can buy absolutely PURE SMOG-PROOF, MILDEW RESISTENT WHITE PAINT that can be color tinted. Order LIQUID RAW-HIDE POLAR WHITE. Only $2.40 Qt., $7.50 Gal. Prepaid. Guaranteed. Literature is for free.

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1124G S. Fremont Avenue
Alhambra, Calif.

so pure—its got to be good

Increase your business with a classified advertisement in Successful Farming.

CORNS GO FAST!

Enjoy quick relief and speedily remove aching corns with soothing, cushioning, protective, world-famous Dr. Scholl's Zino-pads!

Dr. Scholl's Zino-pads

DRIVE POSTS

Hammer down your fencing cost! Fence faster and easier save time and labor with the revolutionary Danuser Post Driver. Tractor-mounted, power driven, one-man operation. Single lever controls broad-faced 200 lb. driving weight. Delivers 25 blows per minute. Quickly drives steel or small wood posts. No splitting or "mushrooming" tops. Pivot adjustment for leveling on uneven ground. Tested and approved by tractor manufacturers. Also available as a trailer unit.

Write for literature pertaining to your model tractor, or specifications on TRAILER-MOUNTED DRIVER

Manufactured by

DANUSER MACHINE CO.
504-08 East 3rd Street • Fulton, Missouri
"Contributing to Farm Mechanization"

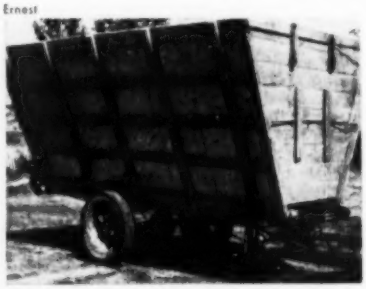
Successful shortcuts

Photograph: Wettach

Float-controlled switch on stock tank turns electric pump on and off for Kenneth Hatch, Henry County, Iowa. An ordinary float was bolted to an 18″ rod, then welded to switch mounted on post.

Position desired for float to switch pump off was determined by bending the rod to match water level. Ground wire was fastened to both stock tank and windmill tower to protect livestock.

Ernest



Silage unloading wagon built by Richard Gregory, Clark County, Missouri, has an endless belt in the bottom of the wagon to speed up work.

Belt was salvaged from an old manure spreader, is used to move silage to the blower. Power to operate the rig is furnished by power take-off. Sides of the V-shaped wagon are made of sheet metal.

Travis

Pipe carrier on his tractor is a handy laborsaver for Ben Swier, Zillah, Washington. Swier got tired of lugging irrigation pipe around on a bulky wagon.

So he bolted an A-frame on each end of the tractor, with a spreader bar between. Curved iron brackets can hold 800′ of pipe. Rig cost about $12, plus labor.

NEW! Boosts Engine Power Up to 25%*

DOUBLE POWERED

Mobilgas SPECIAL

The Only Gasoline Double Powered with

1 Mobil Power Compound

most powerful combination of chemical additives ever put into any gasoline to correct engine troubles...

2 Top Octane

for greatest knock-free power—result of the world's most advanced refining developments!

Improves Every Car's Performance—Increases Gas Mileage, too!

NOW, in New Mobilgas SPECIAL—Mobil Power Compound, an exclusive combination of chemical additives—has been *combined with top octane* to bring new on-the-road benefits to every motorist:

Boosts power up to 25%—improves *every* car's performance!

Checks pre-ignition ping. Mobil Power Compound's amazing additive, RT 125, quells and controls glowing particles responsible for this trouble.

Corrects spark plug misfiring due to injurious combustion deposits. Mobil Power Compound increases life of spark plugs up to three times.

Controls stalling due to icing of the carburetor. No other gasoline offers the protection of GLYMONATE, unique de-icing additive developed by Socony-Vacuum.

Combats gum which causes carburetor parts to stick. New RT 200 additive reduces engine-formed gum—cuts waste of fuel.

Combining top octane and Mobil Power Compound—New Mobilgas SPECIAL gives the greatest protection against engine troubles ever offered in *any* gasoline.

*Laboratory controlled tests in passenger car engines showed increases in engine power output up to 25% when using New Mobilgas SPECIAL as compared to conventional premium gas.

Mobilgas
SOCONY-VACUUM

SOCONY-VACUUM OIL CO., INC., and Affiliates: MAGNOLIA PETROLEUM CO., GENERAL PETROLEUM CORP.

—There's a Tune-Up in Every Tankful— **Now at Mobilgas Dealers!**

Have

Fun!

don't deprive yourself of the fun of going swimming just because it's "time of the month" for you. Be smart! Be modern! Be a Tampax user! Tampax is internal sanitary protection that never "shows" under a wet or dry bathing suit.

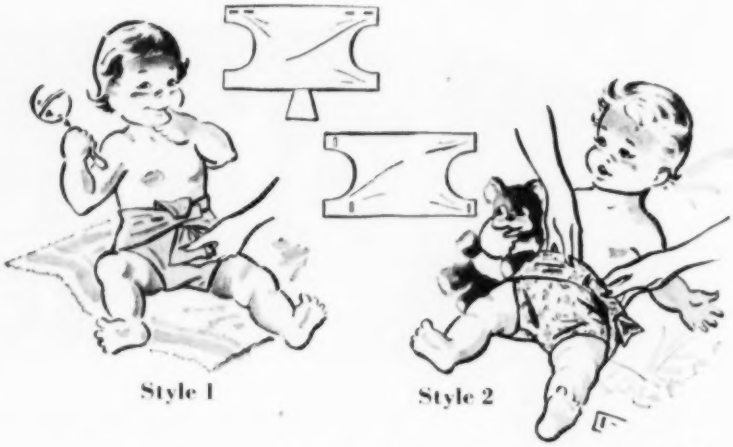
do enjoy all the other summer advantages of Tampax. Be glad it prevents chafing. (Tampax can't even be felt, once it's in place.) Rejoice in the way it prevents odor from forming. And remember the fact that it's easy to dispose of when you're away from home. No wonder so many women find Tampax so convenient all year round—so *ideal* during warm weather.

because *honestly!*—Tampax *can* be worn by any normal woman. It's *simple* to insert! Get your supply this very month at any drug or notion counter. Choice of 3 absorbencies: Regular, Super, Junior. Month's supply goes into purse. Tampax Incorporated, Palmer, Mass.

Accepted for Advertising by the Journal of the American Medical Association

Easy-ons for tots

Struggling to get clothing on and off tiny ones during hot summer months is tiring for mother, causes child unnecessary discomfort. Here are three Advance Patterns styled for jiffy dressing



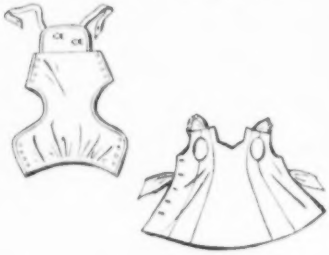
Style 1 Style 2

Drawings: Spurgeon

No-pin infant's diaper. *Style 1* is secured by pulling tab through buttonholes at front. *Style 2*, diaper ends lace through buttonholes at front and back. Both adjustable to fit tiny baby or toddler, shaped to eliminate bulk about legs. Pattern 6717, one size only. 1¼ yards flannelette. 25 cents.

Snap-on toddler sunsuit. Just lay child on sunsuit opened flat, snap sides, button shoulder straps at back. Pattern 6471, toddler sizes ½, 1, and 2. Use ¾ yard cotton fabric, ⅝ yard plastic for lining. 25 cents.

Button-back toddler dress. Pinafore goes on without twisting tiny arms or pulling over head. Buttons from neck to hem in back. Pattern 6422, toddler sizes ½, 1, 2. 1⅝ yards fabric. 25 cents.



These Advance Patterns available from local dealers or may be purchased direct from Successful Farming, 1707 Meredith Building, Des Moines 3, Iowa.

Crossarms, insulators and other hardware are assembled before pole is raised.

Fastening wires from the ground with raising tool.

New Rural Telephone Line Undergoes Tests

Remote and hard-to-reach rural areas may soon get telephone service more easily if a new construction method now under extensive testing performs as expected.

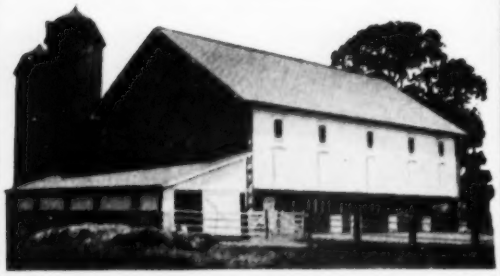
The new method saves construction cost and is more efficient—most pole-climbing is eliminated. Wherever possible, holes are dug and poles are raised with mechanical equipment on small trucks. Then mechanical fingers on long handles reach up and clamp the wire to special insulators.

The light and sturdy materials are easily transported to the site and heavy equipment is not required. Dirt roads and country lanes are no big handicap.

From original design by the Bell Telephone Laboratories to testing by the Bell Telephone Companies, the line is an example of our constant aim to find better ways of serving rural America.

BELL TELEPHONE SYSTEM

ROOF RIGHT



Barn owned by Dr. A. L. Hauer, Palmyra, Pa. This is one of two fine barns the owner has roofed with #5 Black "Century" shingles. Roofing contractor: Ammon Wenger, Annville, Pa.

with "CENTURY"® Asbestos-Cement Shingles

A roof of "Century" shingles offers a lifetime of maintenance-free service—and more! Thrifty farmers in every section acclaim it as an ideal roofing material. Here's why:

Because they are made from asbestos fiber and portland cement, "Century" shingles *can't* burn, rot, or corrode. They're proof against termites, and even the most severe storms and cold spells leave these rugged shingles unharmed.

"Century" shingles can be applied easily and quickly to new construction, over old wood shingles or composition roofs. There are five good-looking colors to choose from: White, Dell Green, Red, Black, and Surf Green—any of which will help make your home and buildings a sight to be proud of!

See your lumber dealer this week about "Century" roofing shingles. Ask him too about "Century" siding. Or write directly to us for free folder on roofing and siding.

KEASBEY & MATTISON COMPANY • AMBLER • PENNSYLVANIA

America's *first* maker of asbestos-cement shingles

Renew at least six weeks before your present subscription expires.

the DAVIS LOADER

. . . takes rugged punishment and still comes back for more. It can be hooked up in a matter of minutes, and its streamlined design permits better vision as well as mounting from either side or rear. It fits most popular tractors. Many attachments give it year 'round useability. Compare it feature for feature, dollar for dollar with any other front-end hydraulic loader, and *you'll choose Davis!*

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$6.95 **DRAINS** cellars, cisterns, wash tubs, **IRRIGATES - CIRCULATES - SPRAYS**

Original "Type P" Pump has 1,001 uses—house, garden, farm. Pumps 2400 GPH; 360 GPH 75' high, or 1500 GPH from 25' well. Use any 1/6 to ¼ HP motor. Motor coupling included. Stainless steel shaft. 1" inlet, ¾" outlet.

RUSTPROOF! DOES NOT CLOG!

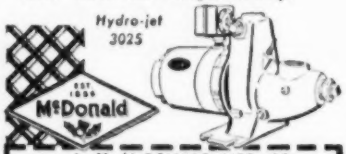
Only $6.95. *Postpaid if cash with order.* (West of Miss. add 50c) Money back guarantee.

Centrifugal and Gear Pumps in all sizes.

LABAWCO PUMPS, Belle Mead 33, N. J.

Water Problems?

If your present water system no longer gives you all the water you need where you need it, if it's causing you trouble and the pressure isn't what it should be — mail the coupon below, for information on McDonald's low-cost way of **improving your water system.** This McDonald Hydro-jet pump, for example, costs only $96.00. Delivers up to 550 gal. per hour at high pressure from deep or shallow wells. McDonald can help you modernize your water system at low cost. **Mail this coupon today.**



A. Y. McDONALD MFG. CO.
Dubuque, Iowa

Send me facts on low cost water systems.

Name _____

Address _____

Town _____ State _____

One-litter system

From page 43

pigs are turned into good alfalfa pasture. Bayard feeds a normal amount of grain and supplement from the time pigs go on pasture until the first of December. He wants his pigs to weigh about 90 to 100 pounds by this time. Gilts are picked in December, separated from the fattening hogs, and are fed a normal ration for the rest of the winter.

Around the first of the year, Bayard begins increasing the chopped or ground alfalfa in the fattening pigs' ration. At the same time, he begins cutting the amount of corn and protein fed. This hog raiser goes on the theory that the time for greatest grain feeding is from weaning to 90 pounds.

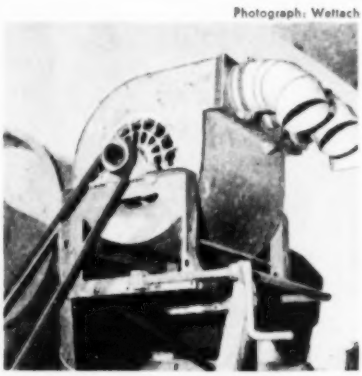
From January until the following July, the pigs get about 2 pounds of corn per head per day plus all the alfalfa they will eat. This feeding program has resulted in hogs reaching 230 to 260 pounds on 8 to 9 bushels of corn.

In May, the hogs go on pasture. At this time they usually weigh about 150 pounds. The hogs stay on pasture, and are fed 2 pounds of corn apiece per day, until sale time in July or August. If necessary, pigs are full fed for one or two weeks to bring them to the desired finish.

"This system of raising hogs will work as outlined, or it can be modified to meet changing conditions," said Bayard. "For example, this past year the sows were bred back at weaning time and sold at a premium in December. Also, because of a strong winter hog market, the faster-gaining pigs were finished for a March sale with the balance readied for summer sale. One reason for doing this was the good chance that I'll be short of pasture this year," Bayard said. **END**

Air-conditioned harvester seat

Photograph: Wettach



Fan mounted on bracket over driver's seat blows cool air at E. M. McElhinney, Tama County, Iowa, when he circles the field on a hot day. Blows dust away, too. Fan is run by V-belt. Adjustable joints (like stovepipe elbows) aim air as desired

Tips for dairymen

Carrier takes milk cans right to the cows

This is how E. C. Ringhofer, Steele County, Minnesota, milks in his stanchion barn.

He loads the 28x46-inch utility rack shown below with 4 cans, a strainer, and 2 milking units. Then, he pushes the rack to the far end of the barn.

As he milks, he pours the milk into the cans on the nearby rack, then pushes the carrier on to the next cows. He ends up in the milkhouse. The carrier is attached to an overhead track, originally used for cleaning out manure.

Photograph: Messerly

• • • •

Teat-cup liners, tubes good bacteria hide-out

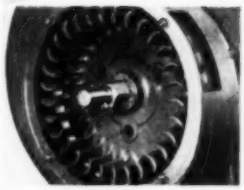
Rubber teat-cup liners and tubes that look to be in good condition may have microscopic cracks crawling with bacteria.

T. J. Claydon, Kansas State College, found that used teat-cup liners carried 19 times as many bacteria as new ones. Used rubber tubes carried about 12 times as many bacteria as new ones.

Waiting until you can see the cracks in the liners and tubes is too late, says Claydon. The average teat-cup liner begins to break down after three months of use and should be replaced. Tubes not subject to the squeezing motion start to break down after six months.

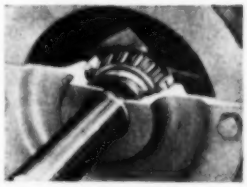
Storing liners and tubes in a .5 percent lye solution helps keep down bacterial counts. New plastic tubes also cut down the bacterial count, since they are less likely to harbor bacteria.

WISCONSIN
HEAVY-DUTY Air-Cooled ENGINE
Farm Power Features



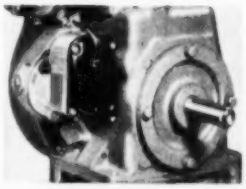
TROUBLE-FREE, ALL WEATHER AIR-COOLING . . .

No farm machine is any better than the Power that drives it. And efficient cooling, under all operating conditions, is one of the first essentials to dependable power! A large capacity fan, cast in the flywheel of every Wisconsin Engine, provides trouble-free cooling, even in the most extreme temperatures.



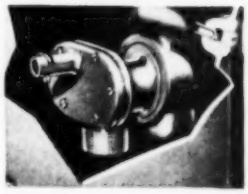
TAPERED ROLLER BEARINGS AT BOTH ENDS OF CRANKSHAFT . . .

These self-cleaning, file-hard bearings take up all load thrusts, permitting the use of either chain-, belt- or gear-drive direct from the extended crankshaft, without fear of damaging main or connecting rod bearings. This does away with the need for an outboard bearing.



HIGH TENSION, ROTARY TYPE OUTSIDE MAGNETO . . .

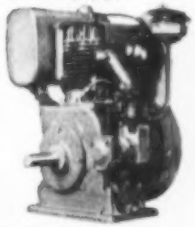
Positive gear drive direct from camshaft assures steady, uniform ignition at all times. The complete unit is conveniently mounted on the OUTSIDE of the engine for easy accessibility. Weather-sealed against moisture and dust. Equipped with Impulse Coupling for quicker, easier starting at all seasons.



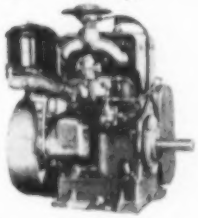
POSITIVE, PUMP-CIRCULATED LUBRICATION . . .

All single cylinder models (with exception of Model AEN) have pump-circulated level splash system. Model AEN and multi-cylinder models pump an individual oil stream to each connecting rod. Other parts are lubricated by oil spray, assuring complete and thorough lubrication for smooth-running and long engine life.

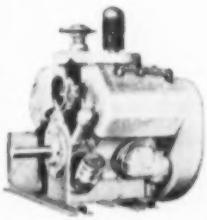
• 4-cycle Single cylinder 3 to 6 h.



• Single Cylinder 6 to 9 hp.



• 2-cylinder 7 to 15 hp.



• 4-cylinder V-type 15 to 36 hp.

• These are some of the reasons why it pays to specify "WISCONSIN ENGINE POWER" when you buy new farm equipment. See your implement dealer . . . and write for free descriptive literature.

MOST H.P. HOURS
WISCONSIN MOTOR CORPORATION
World's Largest Builders of Heavy-Duty Air-Cooled Engines
MILWAUKEE 46, WISCONSIN

HOOF ROT?
CANKER — THRUSH
A powerful, penetrating antiseptic for stubborn hoof conditions, fungus infections. Easy to apply —pour it on. 12 oz. bottle —$1.00 at your dealer's, or by mail postpaid.
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"NOTHING BETTER"

BLOODLESS CASTRATION, also DEHORNING, DOCKING. Simple, easy. One man, any weather. Elastic ring method.
ELASTRATOR
PAT. T.M. REG.
Time-tested! AT DEALERS or . . . Postpaid $12.50. Rings extra: 25 rings, 50c; 100, $1.80; 500, $7; 1,000, $12. (Insist on genuine Elastrator rings with yellow mark.)
CALIFORNIA STOCKMEN'S SUPPLY CO.
151 Mission St., Dept. D, San Francisco 5, Cal.

IF YOU SUFFER PAIN of HEADACHE NEURALGIA NEURITIS
get FAST RELIEF with

the way thousands of physicians and dentists recommend.

HERE'S WHY . . . Anacin is like a doctor's prescription. That is, Anacin contains not just one but a combination of medically proved active ingredients. No other product gives faster, longer-lasting relief from pain of headache, neuralgia, neuritis than Anacin tablets. Buy Anacin® today!

Stomach UPSET?

Hospital Tests Prove Pepto-Bismol works where Soda and Alkalizers Fail!

1 **Pepto-Bismol helps soothe in the stomach . . . where overdoses of soda and alkalizers may actually retard digestion!**

2 **Pepto-Bismol also helps calm distress in the intestinal tract . . . where soda and alkalizers never help!**

Pepto-Bismol's special medicinal formula soothes *both* the irritated stomach *and* intestinal walls with a gentle coating action. It helps retard gas formation; calm heartburn, nausea. Controls simple diarrhea—without constipating. Wonderful for children, too.

Take HOSPITAL TESTED

Pepto-Bismol®

and feel good again!

A NORWICH PRODUCT

MALATHION*

Cyanamid's new insecticide

kills resistant flies!

- Quickly effective, economical
- Residual kill lasts up to 21 days
- Easy to handle and apply
- Called "one of the safest insecticides to handle" by USDA
- Kills flies in larva or maggot form, too
- Accepted by USDA for fly control inside dairy barns.

Apply malathion as a straight or bait spray, thoroughly wetting the surfaces where flies gather or breed.

Malathion insecticides are available from national manufacturers. Follow the manufacturer's instructions and precautions. Write for further information or consult your supplier.

*Also known as MALATHON

AMERICAN *Cyanamid* COMPANY

Manufacturer of MALATHION Technical
AGRICULTURAL CHEMICALS DIVISION

30 Rockefeller Plaza • New York 20, N. Y.

You must choose a weapon

For fighting farm fires

Photograph: Ernest

Fire-fighting line-up (left to right): *carbon dioxide* for gasoline and electric fires; *chemical foam* for gasoline and oil fires; *carbon tetrachloride* for electrical fires; *soda acid* for most general type fires

If you effectively fight a fire during the first five minutes, you can usually control it, say experienced firemen.

Fire extinguishers can be your best bet for stopping a fire before it gets too big to handle. However, you must fight some fires with a certain type of extinguisher.

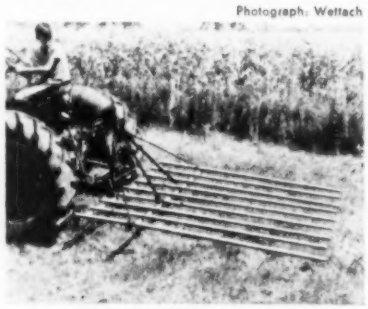
Firemen recommend two primary types for stopping most fires caught in the early stages—carbon tetrachloride and soda acid.

Carbon tetrachloride is needed for electrical fires. Since the action of this extinguisher destroys oxygen in the air, you must be careful when using it in an enclosed space.

Soda acid can be used for any type of fire except electrical fires. You can use this type to smother liquid fires by placing one finger over the jet to get a spray and foam effect.

Rake mounted on tractor

Photograph: Wettach



Hydraulic lift operates rear-mounted rake for William Lorton, Davis County, Iowa. Rig is made from scrap iron, 1¼" iron pipe with rake teeth welded to the ends. Fine for long-grass silage, or hay

STOP PAIN INSTANTLY

COMBAT INFECTION

PROMOTE HEALING

WITH ANTISEPTIC

Campho-Phenique

(PRONOUNCED CAM-FO-FIN-EEK)

USE IT FOR

MINOR BURNS, CUTS

SCRATCHES, ABRASIONS

Quick! Apply Campho-Phenique at once to minor burns from hot cooking utensils, hot water or steam . . . stops pain *instantly*, promotes rapid healing. The same thing happens when you use it on minor cuts, scratches and abrasions. Campho-Phenique is highly antiseptic. Wonderful for fever blisters, cold sores, gum boils; to relieve itching and to guard against infecting insect bites. Used on pimples, Campho-Phenique helps prevent their spread and re-infection.

Good Fences Are Easy to Build

Successful Farming's film strip, "How to Build Fence," shows best methods. For your group's film, send $3.50 to Successful Farming, Des Moines, Iowa.

Make Hay WITHOUT Belt Slippage Troubles

Treat Baler Belts With

PULMORE

LIQUID BELT TREATMENT

This penetrating liquid belt conditioner prevents slippage in belts of balers, combines, wagon loading and unloading equipment, corn shellers, feed grinders, etc. It prolongs the life of all belts—V-type, flat or round—rubber, leather, canvas or composition material. Ask your dealer today for PULMORE! Write for descriptive folder.

BELTRACTION COMPANY

1815 W. Winona Street Chicago 40, Illinois

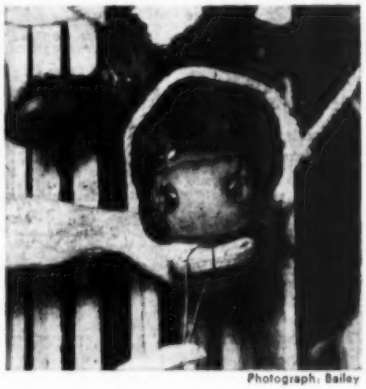
Veterinary

How to relieve choke with baling wire

Cattle that bolt dry feed or swallow whole ears of corn, apples, and other big objects sometimes choke unless these are removed.

You can remove obstructions from the upper throat, alone, by using a piece of baling wire doubled into a loop (see picture below). Slip the loop over and behind the object, then pull forward, bringing out the choking object.

One way to keep the animal's mouth open while extracting the object is to insert a clevis, flat. Then, turn up the clevis to hold the mouth open.



Photograph: Bailey

• • • •

Cows can have cancer, too!

When one of his cows lost weight and appeared dull, a farmer called in the veterinarian. He believed she had hardware trouble and wanted to sell her for beef if she were open.

A rectal examination by the veterinarian for pregnancy showed that she was full of cancerous growths. Cancer in cattle is fairly common and is often confused with other diseases and sicknesses.

• • • •

Heat can kill hogs —keep 'em cool

Hogs just aren't made to take those sweltering summer temperatures. One farmer who had a sow down was told by the veterinarian that she was only overheated—no disease was to blame.

You can go a long way toward keeping your hogs cool by using these management practices: (1) Provide shades with all four sides open. (2) Keep down the dust in lots by spraying the ground with old crankcase oil. (3) Place fountains and watering troughs in the shade. If possible, have cool water flow continuously through the waterers.

Stains in your Toilet Bowl?

use SANI-FLUSH

Stains that show up in your toilet bowl are easily removed when you use Sani-Flush. No messy scrubbing. No hard work. It disinfects too. Just follow directions on the can.

Sani-Flush was made for one purpose—to clean toilet bowls. Use it several times a week for unquestioned toilet bowl sanitation.

At your grocers and other leading retail outlets. The Hygienic Products Company Canton 2, Ohio.

Sani-Flush

PERFUMED

Guaranteed by Good Housekeeping

Safe with all Septic Tank Systems

YOU CAN BE PROTECTED against the leading cause of farm fires with a WEST DODD SYSTEM

If you believe in insurance you should investigate WEST DODD LIGHTNING PROTECTION. It gives almost 100% protection to house, barns, silos and outbuildings against the leading cause of farm fires, when properly installed. Often cuts insurance rates. Get the facts today.

WEST DODD LIGHTNING CONDUCTOR CORP. Goshen, Indiana

Home "Fix-it" Tips

Do a professional repair job with Plastic Wood. Apply it to cracks . . . handles like putty, hardens into wood . . . lasts as long as the wood it fixes!

YOU NEED "PLASTIC WOOD"

Farmer's Trading Center

Advertisements using illustration or display (large) type, $7.00 per agate line. Available to advertisers who make a mail offer of merchandise (including poultry, livestock, pet stock) or services (schools, etc.) at a stated price, or offer a mail-order catalog. Word classified (no illustration or display type)—14-word minimum—all classifications—90 cents a word. Write Successful Farming, Des Moines 3, Iowa.

AGENTS WANTED

Money for Xmas! Make $50 and more during spare time. Friends, neighbors—everyone buys from Elmira's exquisite New Sparkling Line. Imprinted Christmas Cards for As Little as 3c. Personalized Stationery, Napkins, Large Gift Wrappings with Free accessories. Ribbon Ties ... all fine quality Money Saving Values. No Experience Needed. Send Name and Address for Free Portfolios, Catalog, Assortments on Approval. Bonus Plan. Elmira's "Portable Gift Shop" Makes Money First Day. Write Today. Elmira Greeting Card Co., Dept. C-253, Elmira, N.Y.

Make Money Fast—for yourself, church, organization ... selling friends, neighbors big value $1.00 and $1.25 Christmas and All Occasion Greeting Cards. Leading 21 card boxes, Religious and novelty assortments. Gift Wrappings, Stationery, Children's Items, Gifts, Gadgets. Deluxe Imprinted Christmas Cards. Over 200 items—profits to 100%. Experience unnecessary. Bonus. Free Selling Plan! Samples on Approval. Hedenkamp, 361 Broadway, Dept. SU-23, New York.

At Last! Something New and Sensational in Christmas Cards. Make Extra Money Fast! Show Satins, Velours, Metallics. Gets Easy Orders. Pays up to 100% Cash Profit. 30 Free Samples. With Name 50 for $1.50. Big Line. Amazing new Glitter-Brite Ornaments, Napkins, Gifts, Stationery. Several $1.00 Boxes on Approval. Furo Greetings, 2801 Locust, Dept. 456-J, St. Louis, Mo.

Extra Money! Start Greeting Card—Gift Shop at home. Sell newest Personal Christmas Cards 3c each up. Gold Stamped Items, Stationery. Big profits, plus extra cash bonus. Write for Feature assortments on approval, free samples Personal lines, free color Catalog. New England Art Publishers, North Abington 733-D, Mass.

Bigger Profits selling Greeting Cards. Get list of sensational Factory Surplus Bargains. $1.25 boxes for 50c, $1 boxes for 35c—while they last! Big line new 1954 Christmas Cards, Stationery, Gifts. Assortments on approval, Personalized Samples Free! Midwest Cards, 1113 Washington, Dept. G-58, St. Louis, Mo.

Amazing Color-Glow, Kodachrome Christmas Cards sell like magic. Free samples. 50 boxes bring you $55.00! 101 best moneymakers. Personalized Cards, Novelties. 4 Assortments on approval. $1.25 Retractable Pen Free for prompt action. Creative, 4401 Cermak, Dept. 623-J, Chicago 23.

Big Profits In Spare Time! I'll send, on Free Trial, Assortment Full-Size Samples fine Foods, Household Necessities to ambitious Men—Women who need money. Friends, neighbors buy eagerly. Send no money. Just write

Blair, Dept. 171MP-2, Lynchburg, Va.

Christmas Cards pay 75c profit on $1.25 Assortment. Exclusive 40 for $1 Name Imprints. Gift Wraps By-The-Yard. 200 new fast-sellers. Cash bonus. 5 Assortments on approval. Cardinal, 1400 State, Dept. 74-K, Cincinnati 14.

New Bathroom Deodorizer. Hangs on wall. Banishes odors bathroom, kitchen. Lightning seller. Samples for Agents.

Kristee 58, Akron, Ohio.

Raise Money Quick—California sweet smelling beads sell on sight. Big profit. Particulars free. Mission, 2328B West Pico, Los Angeles 6, California.

Agents, Salesmen Wanted: To sell Hybrid Seed Corn and Seed Grains. Part time.

Batz Seed Farms, Sun Prairie, Wis.

New Plastic Mending Tape. Just press on! Repairs clothing instantly. Lightning seller. Samples for Agents.

Kristee 57, Akron, Ohio.

Renew at least six weeks before your present subscription expires.

FOR FARM WOMEN

Gold or silver color miniature mesh bags for coins, tokens, pills. Be worn on wrist, belt, suit, slacks, skirt, blouse or bag. Also auto. Send for yours today. Only $1.25 postpaid. Guaranteed or money back. Set-Vle, Dept. SF, Lowry Hotel, St. Paul 2, Minn.

Women, Make Money Weaving in your home during your spare time. Weave beautiful hand-loomed rugs, tweeds, draperies, suitings on Newcomb Loom. No previous experience necessary. easily operated Rugs in great demand. Free illustrated catalog. Newcomb Loom Co., established 1898, Davenport 208, Iowa.

Weavers—Write for low prices—carpet warp, rug filler, looms, parts, inexpensive beam counter. If you have a loom, give make and width please. Or. Rug Company, Dept. 6422, Lima, Ohio.

Need Extra Cash? Get it selling Blair's unusual line of household and food products. Every housewife a prospect. Products sent on Free Trial. Write

Blair, Dept. 171-MP-1, Lynchburg, Va.

Look: Full Fashioned Nylon Hosiery. Irregulars 3 pr. $2. Seconds 3 pr. $1. Thirds 6 pr. $1. Satisfaction guaranteed. Premier Sales, Box 8177, Chattanooga, Tenn.

98 All new, full size lawn ornament and novelty patterns, up to 20" high. Only $1.00. Mastercraft 72A, 7041 Olcott, Chicago 31, Illinois.

Women make money at home, spare time. Sew ready-cut Rap-A-Round. Easy, profitable. Hollywood Mfg. Co., Dept. AA, Hollywood 46, Calif.

Send us raw wool for fine blankets. Free literature. West Texas Woolen Mills, 412 Main, Eldorado, Texas.

Thrilling, Profitable Home Business. Make fast-seller chenille monkey trees, dolls, flowers. Terrific holiday demand. Information free. Velva, Bohemia 25, N.Y.

For golden or silver anniversary invitations, napkins, guest books, doilies or wedding invitations, write

Maas & Co., Bonner Springs, Kansas.

Snap Fasteners and shirtmaking supplies. New removable snap for blouses. Free folder. Campau Co., Box 2125F, Castro Valley, California.

Home Workers. Help fill demand for handmade moccasins. Good pay. Experience unnecessary. California Handicrafts, Dept. 31, Los Angeles 46, California.

697 New Pretty Buttons for all sewing postpaid. Satisfaction guaranteed. Send $1.00 today. Mr. Buttons, Glen Rock 8, N.J.

Earn $12 dozen sewing new "Tutone" Baby Shoes. Details free.

Thompson's, Loganville SF, Wis.

$30.00 Weekly Making Roses at home. Easy. Write, Studio Company, Greenville 8, Penna.

RABBITS

Start Right by Knowing Facts about rabbit raising. Illustrated booklet describing all breeds, Housing, Feeding, Breeding, Marketing. 48 pages 10 cents. American Rabbit Breeders Association, 40 ARBA Building, Pittsburgh, Pa.

Make up to $10,000.00 raising either Chinchillas, Guinea pigs, Rabbits, Pigeons, Calves or Mink for us. Information 25c. Keeney Brothers Farms, New Freedom 5, Penna.

Earn up to $400 monthly raising Angora or New Zealand Rabbits. Particulars free.

White's Rabbitry, Jackson, Michigan.

Rabbits: Standard Rabbit Journal. R-241-5, Milton, Pa. Year $1.00, sample dime, Beginners manual 25c.

FILM FINISHING

Dated Prints From Your Roll of film, dated on the front margin. Magnificent quality. America's most modern laboratory. 6 or 8-exposure roll printed jumbo size in pockette album, 35c. 12 exposures, 45c. 16 exposures, 60c. Satisfaction guaranteed or money refunded. Over-night service. Free mailers. Free coupons. Kleer-Vue Film Service, Box 6364C, Philadelphia 39, Pa.

The Photo Mill. Immediate Service. No delay. Eight exposure roll developed and two prints from each negative 40c or eight Jumbo Prints—35c. Single reprints 3c each. Jumbo Reprints 4c each. Write for complete price list and roll film mailers. The Photo Mill, Dept. 17, 1511 Hennepin, Minneapolis 3, Minnesota.

Star Value Jumbo Finishing 12 exposure roll 1 each 50c, 2 prints each 80c. 8 exposure roll 1 each 35c, 2 prints each 55c. Jumbo reprints 4c. Welch Photo Company, 2418-36 Penn, Minneapolis, Minnesota.

Two "Everbrite" Prints from each negative on 8 exposure film, including coupon for choice of two plain or one colored framed enlargement, 40c. Reprints 3c each. Flash Foto Finishers, Box 1122-R, Minneapolis, Minn.

Only 25c. Your roll developed and 8 finest quality enlarged prints. Pictures plastic bound in beautiful album. Trial offer, limited time. Daily service. Ball Studio, Dept. Z, Box 275, St. Louis, Missouri.

Jumbo Prints, 8-Exposure Roll, 30c. 12-Exposure 45c. 16-Exposure, 55c. Reprints Oversize, 4c. Guaranteed Quality. Mail Order Photo Service, Box 297, Watertown, Wisconsin.

16 Oversize Contact prints or 8 plastic bound superpak album Jumbo prints from roll 35c.

Owl Photo Co., Weatherford, Okla.

8 Jumbos from roll developed 25c, with this ad only.

Skrudland, River Grove, Ill.

Two-Bits (25c) 8-exposure roll developed, Jumbo prints. Electronically processed, satisfaction guaranteed. 12 exposure 35c. 16 exposure 50c. 35 mm finegrain 20 exposure 90c, 36 exp. $1.25 Dated Borders. Reprints, Jumbo, 4c (minimum 5). Cash only. No stamps. Fast Service. Alamo Photo Co., Dept. G, San Antonio 6, Texas.

Quality With Quick Service. Only 35c for 8 beautiful Jumbo prints—first quality, glossy, deckle-edged 12 exposure roll, only 50c. No better prints made at any price. Try us. You will never change.

May Studios, Dept. P-74, La Crosse, Wis.

On Snapshot Days—Remember Ray's With This Ad—Any 8—12 or 16 exposure roll developed, including Raytone King Size Print from each negative, for only 35c. America's Quality Finishers since 1920. Ray's Photo Service. Dept. 87, LaCrosse, Wisconsin.

Two Sets Of "Deckledge" Prints with every eight exposure roll finished—40c. Very finest quality. "Deckledge" reprints 3c each. Jumbo reprints 4c each. Brown Photo Company, 1910-45 Emerson, Minneapolis, Minnesota.

Two Beautiful prints from each picture on roll. 8 exposures 35c. 12 exposure 45c. Thirty three years of satisfied customers. Quick Service.

Lens Photos, Dept. C-10, Janesville, Wis.

Only 25c for 8 beautiful enlarged prints from your roll or negatives. (Trial Offer). 16-50c. Quick Service. Money-back guarantee. Willard Studios, Box 3535N, Cleveland, Ohio.

Beautiful enlargement from each picture on roll—8 exposure 35c; 12 exposure 45c. Cut Rate Photos, Dept. K-1, Janesville, Wis.

12 Jumbos from any size roll developed 35c with this ad only.

E. Skrudland, Lake Geneva, Wis.

Rolls, Reprints, Jumbos In Albums, 8-30c; 12-40c; 16-50c.

Bobs Photo, Box 23, Fairmont, W. Va.

FARM EQUIPMENT

Your Chain Saw's Efficiency depends on the chain it drives. And the most dependable, fast-cutting easily filed chain for any make of saw is genuine, patented Oregon* Chipper Chain. This famous chain is hard-chromed to withstand wear and dulling, is liberally guaranteed, leads its field in sales. Ask your chain saw dealer to Oregon*-tize your saw with top quality Oregon Chipper Chain. Or write Dept. 111, Oregon Saw Chain Corp., 8816 S. E. 17th Avenue, Portland 2, Oregon. State saw make, bar length.

*Registered.

Automatic twine tie attachment for NCM balers. Easy to install. You can own an automatic baler at a fraction the cost of a new baler. Write Pope Automatic Attachment Corporation, Box 420, Greenfield, Indiana for literature and prices. Avoid the rush write today.

Gigantic Surplus Sale—Tremendous savings. Government, and excess inventory; power plants, hydraulics, compressors, pumps, weed sprayers, chain saws, binoculars, tools, hundreds items. Illustrated catalog free. Surplus Center, 880 "O" St., Lincoln, Nebr.

Low Cost Grain Drier. Removes moisture and protects shelled corn, wheat and other small grain. Fits any bin. Write

Louden, Dept. SF-140, Fairfield, Iowa.

Wire Winder—Avoid barbed wire entanglements, use a tractor powered wire winder. Low cost—Free Literature. Midwest Wire, South St. Paul, Minn. Dept. 18.

Available Garden cultivator that hoes between plants. Inexpensive. Easily handled. Inquire Auto-hoe, W. DePere, Wis.

LIVESTOCK

"How To Break And Train Horses"—A book every farmer and horseman should have. It is free; no obligation. Simply address Beery School of Horsemanship, Dept. 207, Pleasant Hill, Ohio.

Wisconsin's finest Holstein and Guernsey dairy heifers shipped to you on approval. Write for free price list.

Otto Vanderburg, North Prairie, Wis.

Train horses by circus methods. Write for free booklets. American Horse Training Institute, Box CA-7, Scammon, Kansas.

MINKS

Mink Farming—The surest, safest agricultural enterprise, offers profitable farm programs. Feed grains, milk, animal and poultry offal. May kits sold in December World Market. Add mink to your present operation. Northwood Fur Farms, world largest producers of fine mink offers breeding stock with complete advisory service. Otto Grosse Cary & Crystal Lake, Illinois 45 Northwest of Chicago.

SCHOOLS

Be An Auctioneer. Term soon. Free Catalog. Missouri Auction School, Box 8425C6, Kansas City, Missouri.

Learn Auctioneering, Terms Soon. Free Catalog. Reisch Auction School, Box 850, Mason City, Iowa.

Keep Successful Farming coming your way each month.

Amazing NEW MILKER

Only $17.00 DOWN

Write Today

- 1-2-3-4 RHYTHM MILKING ACTION . . . gets more milk . . . easier on cows
- SIMPLICITY . . . self-contained . . . more years of service
- CUTS MILKING CHORES IN ½ . . . milks faster, safer . . . easier to clean. No installation costs
- $50 WARRANTY of Increased Production and Better Milking

Don't decide on any milker at any price until you have the facts on the sensational advantages given by the new, improved GLOBE 1-2-3-4 Rhythm MILKER. Single or double milking units for any size herd.

FREE World's Greatest MILKER story — low, direct-from-factory price and EASY TERMS. Write today.

GLOBE MILKER COMPANY Dept. A-44
200 E. 1st St., Des Moines, Iowa, or
1000 E. Mermaid Lane, Philadelphia, Pa.

8-Exp. ROLL FILM 40c

(Any Size Black and White) Developed... KING SIZE Deckle Edge Prints in handy Wallet Folder
12 Exp. Roll...60c 18 Exp. Roll...80c
FREE FILM-COIN MAKER SENT WITH EACH ORDER

FREE! Extra Set of KING SIZE PRINTS WITH ANY SIZE ROLL

Same Day Service
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BOX X-6024 NORFOLK, VA.

Keep *Successful Farming* coming your way. Each month in *Successful Farming*, you will find the kind of information that will help you increase your profits, make your farm work more convenient, and your farm living more comfortable.

PUMP WATER *FAST!*

DRAIN WASH TUBS, CELLARS, CISTERNS. Famous #7 pumps 2900 GPH. 420 GPH at 75' high or 1600 GPH from 25' well. Sturdy, rustproof Alloy Metal. Six Blade impeller. Uses any ½ to ½ H.P. Motor. Will not leak or clog. Fits any garden hose. Immediate money back guarantee. Send Check, Money Order, or C.O.D. $8.95 mos.

IRRIGATE, FILL TANKS, DRAW WELL WATER. Heavy duty #8 Pumps 7000 GPH. 1000 GPH 75' high — 3000 GPH from 25' well. Rustproof Alloy Metal. 6 blade impeller. 1" inlet — 1" outlet. Standard Pipe Threaded. Money back guarantee. Send check, Money Order, or C.O.D. $11.95 mos.

Free Catalogue — Gear Pumps — Deep and Shallow Well Pumps.

MOORE MANUFACTURING CO.
SWEDESBORO, N.J. NEW JERSEY

Successful Farming's practical, up-to-the-minute information will help you and your family enjoy better farm living.

CLEAN OUTDOOR TOILETS
CESSPOOLS — SEPTIC TANKS
STOP ODORS, STOP FAILURES, REDUCE MASS
Amazing fast action bacteria. Harmless, Easy to use, Low cost. Send post card today!
THURBER'S, Farmer City 8, Illinois

A Tip for Program Chairmen

"How to Make and Store Grass Silage" is an interesting and profitable film-slide program by Successful Farming. To order slides and script, send $15 to Successful Farming, Des Moines, Iowa.

OVERLOAD SPRINGS

$9.95 Per Pair Postpaid

For cars and trucks. Give 2000 lbs. extra capacity for all ½, ¾, and 1 ton trucks. 1000 lbs. extra for all cars except Buick, Olds, Nash. Easily installed in 5 minutes. Satisfaction guaranteed. State make & model.

BRINKMAN MFG. CO.
2315 Clay, Topeka 67, Kansas

Farmer's Trading Center

Advertisements using illustration or display (large) type, $7.00 per agate line. Available to advertisers who make a mail offer of merchandise (including poultry, livestock, pet stock) or services (schools, etc.) at a stated price, or offer a mail-order catalog. Word classified (no illustration or display type)—14-word minimum—all classifications—90 cents a word. Write Successful Farming, Des Moines 3, Iowa.

DOGS—PETS—SUPPLIES

Genuine English Shepherd and Collie pups—guaranteed heeldrivers—(no foiling) year's trial—training instructions—(50,000 satisfied customers) males—females—spayed females—$15.00. (Distemper vaccinated).
Emil Runft, Reinbeck, Iowa.

Setters and Pointers, Fox, Coon, and Rabbit Hounds, shipped for trial. Catalog 10 cents. Stanley Blake, Mgr.
Blue Grass Farm Kennels, Berry, Ky.

Creekside Eng. Shepherd pups. $12. Guaranteed heelers, watchdogs, happy guarding the baby. Training instructions. Few older partly trained $25.
Creekside Kennels, Beardsley, Minn.

Genuine English Shepherd pups—(Distemper—Vaccinated). Guaranteed Heeldrivers. Year's Trial. Training Instructions. Males, Females, Spayed Females.
Highview Farms, Cedar Falls, Iowa.

"P.R." German Shepherd Police Pups. Registered. Protect Your Property. Good watch dogs. Send 25c for pictures.
H. Schumacher, Ottertail, Minn.

Rat Terrier Puppies—small type and large type for squirrels. Send dime for photos and literature.
Kenny's Kennels, St. John, Kansas.

English Shepards—Border Collie Puppies. All ages, both sexes, choice colors, faithful workers, satisfaction guaranteed.
Fairmount Farms, Cedar Falls, Iowa.

Belgian Sheepdogs—Reg., New Marvel of Obedience Class, Born Watchdogs.
Marlin Le Gore, Le Gore, Md.

MISCELLANEOUS

Septic Tank Cleaner—Forget digging, pumping, moving, insect problems! Flush one Peptank treatment into toilet monthly. Peptank works immediately, unclogging pipes, reducing and liquefying mass, reducing odors. Guaranteed harmless to plumbing and drainage fields. Excellent for outdoor toilets. Trial Supply, $1.25. Year's Supply, $3.50. Postpaid. American Chemical Products Company, Dept. E-7, 532 North 18th Street, Richmond, Virginia.

Don't feed sparrows! Catch thousands with Original Vail Sparrow Traps. Big cash savings guaranteed. Free particulars. Rush! Farm Service Company, Box 7921, Chicago 1, Illinois.

To $10.00 Lb. Paid. We buy 200 different roots, herbs, Milkweed, Catnip, etc. Write: Herbco 463, Medina, Ohio.

Farmer's Wool made into blankets, batting, robes and yarn. Circular free. Monticello Woolen Mills, Monticello 9, Wisc.

Paint, Outside, Factory Prices. Free Catalog. Snow White Paint Co. Toledo, Ohio.

FOR FARMERS

Attention Cream Shippers! Ship us your cream. 59 years of honest, dependable service. Galva Creamery Company, Galva, Illinois, and Kansas City, Missouri
Peterson's Creamery, St. Paul, Minnesota.

OLD GOLD—JEWELRY

Watches Wanted. Any Condition. Also broken jewelry, spectacles, dental gold, diamonds, silver. Cash sent promptly. Mail articles. Satisfaction guaranteed.
Lowe's, Holland Bldg., St. Louis 1, Mo.

PHEASANTS

Raise Pheasants on $100 week plan. Little capital and space can make you independent. Free details. Great Central System, Columbus 8, Kansas.

PATENTS

Inventors: Learn how to protect your invention. Special Booklet "Patent Guide for the Inventor" containing detailed information concerning patent protection and procedure with "Record of Invention" form will be promptly forwarded upon request—without obligation. Clarence A. O'Brien & Harvey Jacobson, Registered Patent Attorneys, 430-G, District National Building, Washington, D.C.

Inventors—If you believe you have an invention, you should find out how to protect it. Send for copy of our Patent Booklet "How to Protect Your Invention" and "Invention Record" form. No obligation. McMorrow, Berman & Davidson, Registered Patent Attorneys, 1155 Victor Building, Washington 1, D.C.

Inventors: When you are satisfied that you have invented something of value write me, without obligation, for information as to what steps you should take to secure a Patent. Write Patrick D. Beavers Registered Patent Atty., 950 Columbian Bldg., Washington 1, D.C.

Inventors: Information on patent procedure furnished on request, without obligation. John Randolph, Registered Patent Attorney, 237 Columbian Building, Washington 1, D. C.

"Inventor's Guide" and "Record of Invention" free on request. Frank F. Ledermann, Registered Patent Attorney, 154 Nassau Street, New York City.

FARM SEEDS AND NURSERY STOCK

Free Sample Campbell's Gro-Green Liquid Fertilizer. Makes 1 gal. ready to use fertilizer—enough to feed 25 house plants 6 months.
H. D. Campbell Co., Rochelle 10, Illinois.

EDUCATION

Complete Your High School at home in your spare time with 57-year-old school. Texts furnished. No classes. Diploma. Information booklet free. American School, Dept. XB30, Drexel at 58th, Chicago 37, Illinois.

Make Up To $50-$60 Week as a Practical Nurse, Nursing Aide, or Infant Nurse. Learn quickly at home, spare time. Booklet free. Chicago School of Nursing, Dept. F-6, Chicago.

Be a Real Estate Broker. Study at home. Write for Free Book today. G.I. Approved. Weaver School of Real Estate, Dept. SF, Law Bldg., Kansas City, Mo.

Enjoy Successful Farming's helpful hints for better living each month.

STAMPS AND COINS

Free! Big United States Catalog. Valuable guide and check list. Hundreds of illustrations. Approvals. Harrisco, 306-F Transit Building, Boston 17, Mass.

Free! Price list of 250 different Collector's Supplies, Albums. Approvals.
Littleton Stamp Co., Littleton G18, N.H.

Renew your Successful Farming Subscription early!

SALESMEN WANTED

Look Here! Wanted—Men to start in business on credit. Sell some 200 farm-home Products. Thousands of our Dealers now make quick sales, good profits. For particulars write Rawleigh's, Dept. G-192-SHW, Freeport, Ill.

Enjoy Successful Farming's helpful hints for better living each month.

FARMS—REAL ESTATE

Widow's Sacrifice. Only $4,500 buys 200-acre farm complete with 5 cows, 2 yearlings, 3 calves, team, poultry, machinery oat and hay crop! Gravel road, TV area, milk picked up, town within 6-mile drive. 100 tillable bottom, 5 ponds, woven wire, part timber, 30 apple trees, 12 peaches. Electric-lighted 4-room home, 36-foot barn, poultry facilities, garage. Genuine sacrifice sale at $4,500, only $1,500 down. Big Summer bargain catalog, 16 states, sent free! United Farm Agency, 2825-SF Main St., Kansas City 41, Mo.

Strout Realty Catalog Mailed Free! Farms, Homes, Businesses, 34 States. Coast-to-Coast, 3240 Bargains described. World's Largest; 54 years Service. Strout Realty, 20-R West Ninth St., Kansas City 5, Mo.

Canadian, Farm Lands—Improved and Unimproved Lands. Good settlement opportunities on productive soil, reasonably priced. For free information write: Canadian National Railways, Room N100, Union Station, Winnipeg, Canada.

Farm-Ranch Opportunities. Favorable conditions. Washington, Minnesota, Montana, Idaho, Oregon, North Dakota. Literature, farm descriptions. Specify which state. J. W. Haw, 11 Northern Pacific Ry., St. Paul 1, Minn.

South Carolina Farms . . . any size or kind. Mild climate.
J. T. Rhodes, Estill, S. C.

Every product advertised in Successful Farming is carried under the guarantee on the index page.

STOCKMAN'S SUPPLIES

Horn Weights. 90c per pair postpaid. Made in 4 sizes—½ lb., 1 lb., 1½ lb., and 2 lb. Tattoo markers $5.25, postpaid, includes set of numbers, bottle of ink, and full directions. We also carry complete line of ear tags, neck chains, veterinary instruments, supplies, serums, remedies, in fact, everything for the stockman. Write for free catalog.
Breeders Supply Co., Council Bluffs, Iowa.

Write for free literature on Hog Cholera, Erysipelas, Hemorrhagic Septicemia, and other livestock diseases. Colorado Serum Company, 4950 York St., Denver 16, Colorado.

Give Successful Farming, and your friends will be reminded of your thoughtfulness each month throughout the year.

FEATHERS WANTED

Absolutely Highest prices paid for new and old Goose & Duck feathers. Send for free tags and shipping instructions. For Top prices on used feathers mail small sample from your featherbed in ordinary envelope to Northwestern Feather Co., Dept. B, 212 Scribner NW, Grand Rapids 4, Mich.

Guaranteed top prices and immediate payment for feather shipments. Free tags. Ship to this old reliable firm. Used feathers—send sample for best price. No handling or commission charge. Progress Feather Co., 657 W. Lake St., Chicago, Ill.

Every product advertised in Successful Farming is carried under the guarantee on the index page.

HOBBIES

Leathercraft, Metal Tooling, Textile Painting, Beadcraft, Shellcraft . . . many other crafts. Fun, easy, profitable! Free, big, illustrated catalog. Write today. Kit Kraft, Dept. AJ57, Hollywood 46, Calif.

"Do-It-Yourself" LeatherKraft Catalog Free! Drop 2c postcard Box 3978
Tandy Leather, Tulsa, Oklahoma.

POULTRY—CHICKS DUCKS—EQUIPMENT

Sensational Cut Price Values! Egg Bred Chicks. U. S. Approved, Pullorum Clean. 28 Pure and Cross Breeds. Pullets or Cockerels. Low as $7.95—100. Mt. Healthy Special. Egg Breeding Builds Healthy Chicks that Really Pay Off. Both on the Market and At The Nest. Many Matings Sired by R.O.P. Males. Day Old or Started Chicks, up to 6 weeks. Write for Complete Price List. Mt. Healthy Hatcheries, Dept. SF, Mt. Healthy, Ohio.

Brower Feed Mixer Saves You $8-$16 a ton by mixing your own feeds. Perfect mixes in ten minutes. Five sizes, 700 to 4000 pounds capacities. World's largest seller . . . over 9000 in use. Sold on 30 day trial. Priced low, cash or time payments. Free Catalog. Brower Manufacturing Co., Box G76, Quincy, Illinois.

Started Pullets—Hi-Egg Hamps. 3 to 4 weeks old. Heavy Layers of large eggs. A real money making egg strain. Guaranteed 90% pullets. Only $24.90 per 100 fob. Rush your order now. Pilot Grove Hatcheries, Inc., Box 302, Pilot Grove, Missouri.

Write for Brower's Big Free Poultry and Livestock Equipment Catalog and Guide. Chock-full valuable poultry raising information. World's Largest Line poultry supplies, battery broiler plants. Lowest prices. Brower Mfg. Co., Dept. G57, Quincy, Illinois.

Goslings! Lowest Prices Ever! Live Delivery Anywhere. Trapnest Breeding. Free Literature. Heart of Missouri Poultry Farm, Route 4D, Columbia, Missouri.

Magazine of Ducks and Geese (quarterly) explains breeding, hatching, rearing, sexing, defeathering methods, profitable marketing. Year, $2.00.
R28741, Duluth, Minnesota.

Chicks $5.30 100 COD. Reds, Rocks, Hampshires, Crosses. No Leghorns. Prices at Hatchery. Hockman, Milesburg 11, Pa.

Ducklings. Rouen, Pekin, Buff. Hatching through July. Wagner's Duck & Goose Hatchery, Sioux Falls, S. Dak.

White Guineas. Day Old, Started. 100% live delivery. Circular Free. California Hatchery, California 18, Missouri.

EMPLOYMENT

Foreign-U.S. Jobs. So. America, Alaska, Spain. Fare Paid. 1000's Jobs open U.S. to $18,000. Trades, Office. Send stamped self-addressed env.
Job Opportunities, Waseca, 5E, Minn.

Beauty Demonstrators: Up to $5 hour demonstrating Famous Hollywood Cosmetics, your neighborhood. Free Samples and details supplied. Write
Studio-Girl, Dept. SF-74, Glendale, Calif.

Make Money Introducing World's cutest children's dresses. Big selection, adorable styles. Low prices. Complete display free. Rush name. Harford, Dept. L-7341, Cincinnati 25, Ohio.

SALESWOMEN WANTED

Make $50 In Spare Time! Show sensational $1 Christmas Card Assortments. 100 easy sales pay you $50.00. Name-Imprinted Cards 3c apiece. Other fast sellers. Experience unnecessary. Assortments on approval. Imprinted samples Free. Stuart, 4436 N. Clark, Dept. 131, Chicago 40.

More than 1,200,000 farm families subscribe to Successful Farming every month.

DAIRY GOATS

Make Money raising goats—produce healthful milk. Monthly magazine $1 yearly; sample 20c. Dairy Goat Journal, Columbia A25, Missouri.

Latest in livestock research

Ammoniated molasses. The theory that ammoniated molasses can be substituted for all or part of the protein concentrate in winter rations for beef cattle is not that simple.

Ammoniated molasses, containing 15 to 33 percent protein equivalent, fed beef heifers in trials at the Kansas Experiment Station made the cattle "go temporarily crazy." They would weave among other animals in the lot, then suddenly dash across the lot and run into fences or posts. The ammoniated molasses also lowered daily gains and feed efficiency and produced a watery drainage from the eyes.

Researchers at the college say more research is needed to determine reasons for the reaction to ammoniated molasses.

Mate sows twice. The time and number of matings during the heat period has an influence on the percent of sows settled and litter size.

In experiments at the Missouri Experiment Station, an average of 23 percent more sows were settled when mated twice during the heat period. Litter size averaged about one more pig per litter. Sows should be bred twice at intervals of 12 to 24 hours.

Crossbred hogs heavier. Experiments at the University of Illinois and the United States Range Livestock Experiment Station, Miles City, Montana, indicate litter size at birth is about the same for purebred and first-crossbred swine.

After farrowing, however, 7 percent more of the crossbred pigs survived than did the purebreds. At weaning time, there was an average advantage of about .6 pig for the first-crossbred litters.

Litter weights at 70 days and at 180 days showed an advantage of 50 and 230 pounds, respectively, for the first-crossbred litters.

All around the farm *A page written by our readers*

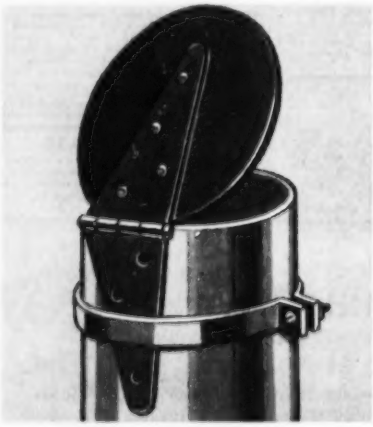
By anchoring balls of twine in the baler twine box, we stopped the trouble we had with twine tangling up.

We cut a board to fit bottom of twine box and drove three nails through the board. When the ball of twine is pressed down on the nails, it stays put.—*M. F., Nebraska.*

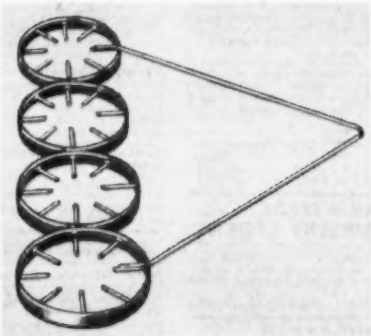
When gathering honey, I simplify the job by using a temporary "honey take-off" house. I made it out of two screened frames set up near the stands. A minnow net is thrown over the top and hangs down over the open sides.

Such a structure is easily set up, and I can then place the full supers in this "house" after I have smoked the bees off. This practice keeps the bees from following the supers when they are taken to the extractor that evening.—*H. S., Wisconsin.*

To keep rain out of my tractor exhaust, I fastened a circular metal disc to one leaf of a strap hinge, and fastened the other leaf onto the exhaust stack with a hose clamp (as shown).



It takes only a second to flip the cover over the outlet to protect against rain, and the pressure of exhaust gases flips the lid off when the tractor is started.—*W. C. W., New York.*



I made a handy yard-leveler by welding together four steel wagon rims that were left after wheels were cut down for rubber tires (as shown).

With these welded together, it is easy to work up close to buildings and fences as the drag has rounded ends and can't hook.—*F. J. K., Minnesota.*

Cauliflower heads won't turn yellow if you draw the leaves up to cover the head as I do. I use a spring-type clothespin to hold the leaves in place.—*F. H., Minnesota.*

As a safety measure, I've nailed a rubber automobile floor mat at the front of my hayrack platform. This assures safe footing when loading bales behind the hay baler.—*J. M., Iowa.*

When cutting threads on bolts or rods held upright in a vise, I slip a tight-fitting washer made from an old felt hat on the rod ahead of the die. This holds the cutting oil and saves time.—*A. C. O., South Dakota.*

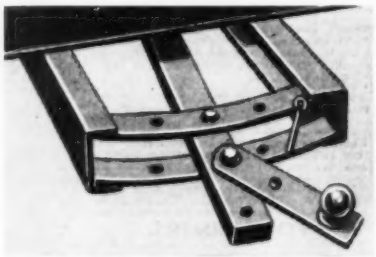
I use bicycle handle-bar grips for tools that require a firm grip for proper use. Screwdrivers, pruning-shear handles, and many other tools will take the grips.

These grips cost relatively little and are available at most hardware stores. They have proved to be real hand-savers for me.—*J. H. R., Minnesota.*

When fastening sheet-metal parts together, I use a rotary file—rather than a drill—to ream out the holes if they don't line up.

The file does not catch as a drill might, and since rotary files are available in various sizes, almost any job can be handled. When used in an angle drill, most tight spots can be reached easily.—*L. A. W., Kansas.*

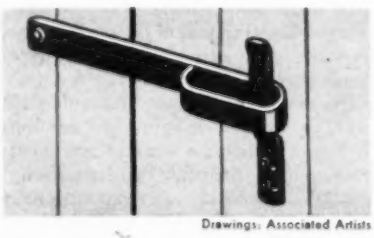
To eliminate attaching the ball each time I use the ball-hitch trailer on the tractor, I've made a swinging extension (as shown).



By bolting the extension in the second hole so I can drop a pin in the usual hitch-hole, I'm able to use both hitches with no bother.—*J. T., Ohio.*

Multipurpose latch holds our sliding doors (as shown) and will work on a pair of swinging doors or a door that closes flush against a door jamb.

The bar is 12" long and the flat loop about 4" long. A 6" length of bar makes the catch. Washers between catch and surface on which it is mounted provide clearance for the bar to slip down behind catch.—*L. L., Wisconsin.*



Drawings: Associated Artists

Successful Farming invites you to share your ideas with the rest of our readers. We pay $5 for each item upon publication, but regret we cannot return those we don't use.—*The Editors*

Fight Blue Comb, Mud Fever, CRD, this quicker, easier way...

Here's the quickest, easiest way to fight costly Blue Comb Disease, Mud Fever and CRD (Air Sac Disease) this summer. It's the low-cost way to hold death losses down, help avoid bad laying slumps after disease or to prepare birds for market.

To help prevent these costly diseases *before they start*, feed a ration containing the wonder-working antibiotic Terramycin at Prevention levels. Keep it on hand always. Then, if disease strikes, feed immediately at Treatment levels as directed. These Hi-Level Terramycin feeds contain Terramycin at 10 to 20 times the level of antibiotics in ordinary feed. This extra Terramycin fights bacteria causing disease.

Feed companies can now give you chicken, broiler or turkey feeds with Hi-Level Terramycin. So, to fight off Blue Comb (Pullet) Disease, Mud Fever, Non-specific Enteritis, Chronic Respiratory (Air Sac) Disease, ask your dealer for a feed containing Hi-Level Terramycin. Feed it as directed on the feed tag. Keep it on hand always.

Use Hi-Level Terramycin Feeds For These Diseases:

POULTRY: Blue Comb Disease (Mud Fever, Non-specific Enteritis), Chronic Respiratory Disease, Hexamitiasis.

SWINE: Infectious Diarrhea (Scours, Necro).

CALVES: Infectious Diarrhea (Scours).

Effective treatment of disease requires prompt and accurate diagnosis. Be sure to consult your veterinary or poultry pathologist.

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NOTHING ELSE BEATS *Tide* FOR GETTING CLOTHES WHITE!

Never before Tide, was it possible to get your wash so *white*. And today's Tide has an even *greater* whitening power that gets sheets, towels, and household linens even more *dazzling* white. It's truly amazing! Get Tide today—there's *nothing* like it! (Tide is made by an exclusive *patented* formula.)

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In these automatics, nothing else will wash as clean as Tide, yet is so mild—no washday soap, no other detergent known . . . including low-sudsing products. Test after test proves it. No wonder more women use Tide in automatic washers than *any* other washing product in the world!

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